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| | | |
|---|---|---|
| NEWS 1 | | Web Page URLs for STN Seminar Schedule - N. America |
| NEWS 2 | Jan 25 | BLAST(R) searching in REGISTRY available in STN on the Web |
| NEWS 3 | Jan 29 | FSTA has been reloaded and moves to weekly updates |
| NEWS 4 | Feb 01 | DKILIT now produced by FIZ Karlsruhe and has a new update frequency |
| NEWS 5 | Feb 19 | Access via Tymnet and SprintNet Eliminated Effective 3/31/02 |
| NEWS 6 | Mar 08 | Gene Names now available in BIOSIS |
| NEWS 7 | Mar 22 | TOXLIT no longer available |
| NEWS 8 | Mar 22 | TRCTHERMO no longer available |
| NEWS 9 | Mar 28 | US Provisional Priorities searched with P in CA/CAplus and USPATFULL |
| NEWS 10 | Mar 28 | LIPINSKI/CALC added for property searching in REGISTRY |
| NEWS 11 | Apr 02 | PAPERCHEM no longer available on STN. Use PAPERCHEM2 instead. |
| NEWS 12 | Apr 08 | "Ask CAS" for self-help around the clock |
| NEWS 13 | Apr 09 | BEILSTEIN: Reload and Implementation of a New Subject Area |
| NEWS 14 | Apr 09 | ZDB will be removed from STN |
| NEWS 15 | Apr 19 | US Patent Applications available in IFICDB, IFIPAT, and IFIUDB |
| NEWS 16 | Apr 22 | Records from IP.com available in CAPLUS, HCAPLUS, and ZCAPLUS |
| NEWS 17 | Apr 22 | BIOSIS Gene Names now available in TOXCENTER |
| NEWS 18 | Apr 22 | Federal Research in Progress (FEDRIP) now available |

| | |
|---|---|
| NEWS EXPRESS | February 1 CURRENT WINDOWS VERSION IS V6.0d, CURRENT MACINTOSH VERSION IS V6.0a(ENG) AND V6.0Ja(JP), AND CURRENT DISCOVER FILE IS DATED 05 FEBRUARY 2002 |
| NEWS HOURS | STN Operating Hours Plus Help Desk Availability |
| NEWS INTER | General Internet Information |
| NEWS LOGIN | Welcome Banner and News Items |
| NEWS PHONE | Direct Dial and Telecommunication Network Access to STN |
| NEWS WWW | CAS World Wide Web Site (general information) |

Enter NEWS followed by the item number or name to see news on that specific topic.



* * * * * * * * * * * * * * STN Columbus * * * * * * * * * * * * * * * *

FILE 'HOME' ENTERED AT 14:33:29 ON 29 MAY 2002

=> fil reg

| COST IN U.S. DOLLARS | SINCE FILE ENTRY | TOTAL SESSION |
|---|---|---|
| FULL ESTIMATED COST | 0.21 | 0.21 |

FILE 'REGISTRY' ENTERED AT 14:33:47 ON 29 MAY 2002
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STRUCTURE FILE UPDATES: 27 MAY 2002 HIGHEST RN 422267-53-6
DICTIONARY FILE UPDATES: 27 MAY 2002 HIGHEST RN 422267-53-6

TSCA INFORMATION NOW CURRENT THROUGH July 7, 2001

Please note that search-term pricing does apply when conducting SmartSELECT searches.

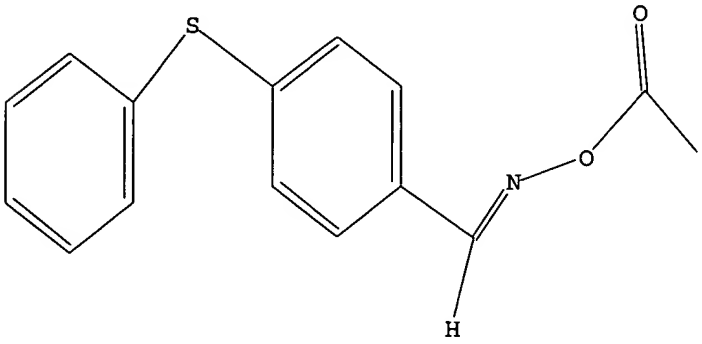
Crossover limits have been increased. See HELP CROSSOVER for details.

Calculated physical property data is now available. See HELP PROPERTIES for more information. See STNote 27, Searching Properties in the CAS Registry File, for complete details:
http://www.cas.org/ONLINE/STN/STNOTES/stnotes27.pdf

=>
Uploading 09734625.str

L1 STRUCTURE UPLOADED

=> d query
L1 STR




Structure attributes must be viewed using STN Express query preparation.

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SAMPLE SEARCH INITIATED 14:34:15 FILE 'REGISTRY'
SAMPLE SCREEN SEARCH COMPLETED - 1 TO ITERATE

100.0% PROCESSED 1 ITERATIONS 0 ANSWERS
SEARCH TIME: 00.00.01

FULL FILE PROJECTIONS: ONLINE **COMPLETE**
BATCH **COMPLETE**
PROJECTED ITERATIONS: 1 TO 80
PROJECTED ANSWERS: 0 TO 0

L2 0 SEA SSS SAM L1

=> s l1 full
FULL SEARCH INITIATED 14:34:20 FILE 'REGISTRY'
FULL SCREEN SEARCH COMPLETED - 53 TO ITERATE

100.0% PROCESSED 53 ITERATIONS 14 ANSWERS
SEARCH TIME: 00.00.01

L3 14 SEA SSS FUL L1

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=> fil caplus
COST IN U.S. DOLLARS                                    SINCE FILE      TOTAL
                                                           ENTRY    SESSION
FULL ESTIMATED COST                                       140.28     140.49

FILE 'CAPLUS' ENTERED AT 14:34:25 ON 29 MAY 2002
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FILE COVERS 1907 - 29 May 2002  VOL 136 ISS 22
FILE LAST UPDATED: 27 May 2002  (20020527/ED)

  This file contains CAS Registry Numbers for easy and accurate
  substance identification.

CAS roles have been modified effective December 16, 2001. Please
check your SDI profiles to see if they need to be revised. For
information on CAS roles, enter HELP ROLES at an arrow prompt or use
the CAS Roles thesaurus (/RL field) in this file.

=> s l3
L4            1 L3

=> d l4 abs ibib hitstr
```

L4 ANSWER 1 OF 1 CAPLUS COPYRIGHT 2002 ACS

AB The invention relates to a photopolymn. initiator of oxime ester for a photoresist compn., wherein the oxime is deriv. of Ar1-C=N-OR1(H) ( R1 = cycloalkanoyl, benzoyl, alkenoyl; Ar1 = aryl, aroyl). The photopolymn. initiator provides the alkali-developable light-sensitive photoresist compn., which shows the improved storageability, of the high resoln. and the good storageability.

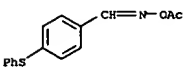
ACCESSION NUMBER: 2001:752026 CAPLUS
DOCUMENT NUMBER: 135:280493
TITLE: Photopolymerization initiator of oxime ester for light-sensitive photoresist composition
INVENTOR(S): Kunimoto, Kazuhiko; Oka, Hidetaka; Ohwa, Masaki; Tanabe, Junichi; Kura, Hisatoshi; Birbaum, Jean Luc
PATENT ASSIGNEE(S): Ciba Specialty Chemicals Holding Inc., Switz.
SOURCE: Fr. Demande, 171 pp.
CODEN: FRXXBL
DOCUMENT TYPE: Patent
LANGUAGE: French
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

| PATENT NO. | KIND | DATE | APPLICATION NO. | DATE |
|---|---|---|---|---|
| FR 2802528 | A1 | 20010622 | FR 2000-16306 | 20001214 |
| NL 1016815 | A1 | 20010618 | NL 2000-1016815 | 20001206 |
| GB 2358017 | B2 | 20020313 | GB 2000-29793 | 20001207 |
| US 2001012596 | A1 | 20010809 | US 2000-734625 | 20001212 |
| JP 2001233842 | A2 | 20010828 | JP 2000-377671 | 20001212 |
| FI 2000002730 | A | 20010616 | FI 2000-2730 | 20001213 |
| DE 10061947 | A1 | 20010621 | DE 2000-10061947 | 20001213 |
| CN 1299812 | A | 20010620 | CN 2000-135980 | 20001215 |
| BR 2000006379 | A | 20010724 | BR 2000-6379 | 20001215 |

PRIORITY APPLN. INFO.: EP 1999-811160 A 19991215
EP 2000-810629 A 20000717

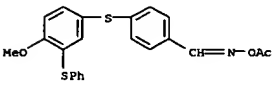
IT **362624-48-4P 362624-62-2P 362624-63-3P 362624-64-4P 362624-65-5P 362624-66-6P 362624-67-7P 362624-68-8P 362624-73-5P 362624-85-9P 362624-87-1P 362624-88-2P 362625-01-2P**
RL: CAT (Catalyst use); SPN (Synthetic preparation); PREP (Preparation); USES (Uses)
(light-sensitive color filter compn. contg. oxime esters used in optical imaging devices)

RN 362624-48-4 CAPLUS
CN Benzaldehyde, 4-(phenylthio)-, O-acetyloxime (9CI) (CA INDEX NAME)

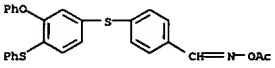


RN 362624-62-2 CAPLUS
CN Benzaldehyde, 4-[[5-(1,1-dimethylethyl)-2-methylphenyl]thio]-, O-acetyloxime (9CI) (CA INDEX NAME)





RN 362624-67-7 CAPLUS
CN Benzaldehyde, 4-[[3-phenoxy-4-(phenylthio)phenyl]thio]-, O-acetyloxime (9CI) (CA INDEX NAME)



RN 362624-68-8 CAPLUS
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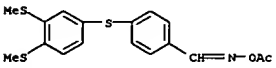

RN 362624-73-5 CAPLUS
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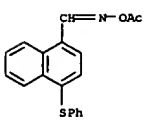

RN 362624-85-9 CAPLUS
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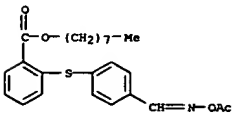
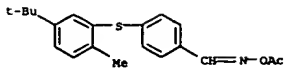
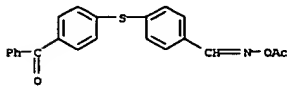


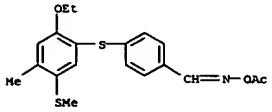




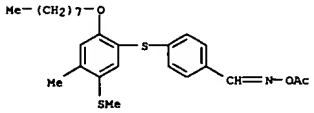
RN 362624-63-3 CAPLUS
CN Benzaldehyde, 4-[(4-benzoylphenyl)thio]-, 1-(O-acetyloxime) (9CI) (CA INDEX NAME)



RN 362624-64-4 CAPLUS
CN Benzaldehyde, 4-[[2-ethoxy-4-methyl-5-(methylthio)phenyl]thio]-, O-acetyloxime (9CI) (CA INDEX NAME)



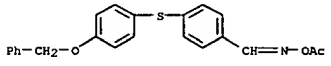
RN 362624-65-5 CAPLUS
CN Benzaldehyde, 4-[[4-methyl-5-(methylthio)-2-(octyloxy)phenyl]thio]-, O-acetyloxime (9CI) (CA INDEX NAME)



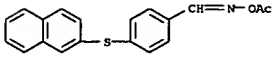
RN 362624-66-6 CAPLUS
CN Benzaldehyde, 4-[[4-methoxy-3-(phenylthio)phenyl]thio]-, O-acetyloxime (9CI) (CA INDEX NAME)



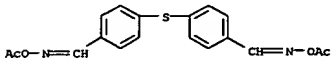
RN 362624-87-1 CAPLUS
CN Benzaldehyde, 4-[[4-(phenylmethoxy)phenyl]thio]-, O-acetyloxime (9CI) (CA INDEX NAME)



RN 362624-88-2 CAPLUS
CN Benzaldehyde, 4-(2-naphthalenylthio)-, O-acetyloxime (9CI) (CA INDEX NAME)



RN 362625-01-2 CAPLUS
CN Benzaldehyde, 4,4'-thiobis-, 1,1'-bis(O-acetyloxime) (9CI) (CA INDEX NAME)



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COST IN U.S. DOLLARS                          SINCE FILE      TOTAL
                                                 ENTRY    SESSION
FULL ESTIMATED COST                               8.35     148.84

DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS)    SINCE FILE      TOTAL
                                                 ENTRY    SESSION
CA SUBSCRIBER PRICE                              -0.62      -0.62

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STRUCTURE FILE UPDATES:   27 MAY 2002  HIGHEST RN 422267-53-6
DICTIONARY FILE UPDATES:  27 MAY 2002  HIGHEST RN 422267-53-6

TSCA INFORMATION NOW CURRENT THROUGH July 7, 2001

  Please note that search-term pricing does apply when
  conducting SmartSELECT searches.

Crossover limits have been increased.  See HELP CROSSOVER for details.

Calculated physical property data is now available.  See HELP PROPERTIES
for more information.  See STNote 27, Searching Properties in the CAS
Registry File, for complete details:
http://www.cas.org/ONLINE/STN/STNOTES/stnotes27.pdf

=>
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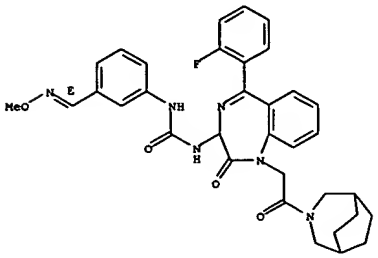
PROJECTED ANSWERS:  EXCEEDS  12198

L6  10 SEA SSS SAM L5

=> d scan

L6 10 ANSWERS REGISTRY COPYRIGHT 2002 ACS
IN 3-Azabicyclo[3.2.2]nonane, 3-[[5-(2-fluorophenyl)-2,3-dihydro-3-[[[(3-[(methoxyimino)methyl]phenyl]amino]carbonyl]amino]-2-oxo-1H-1,4-benzodiazepin-1-yl]acetyl]-, (E)- (9CI)
MF C34 H35 F N6 O4

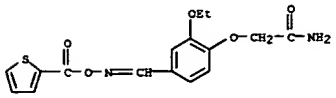
Double bond geometry as shown.



**PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT**

HOW MANY MORE ANSWERS DO YOU WISH TO SCAN? (1):9

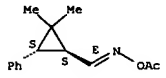
L6 10 ANSWERS REGISTRY COPYRIGHT 2002 ACS
IN Acetamide, 2-[2-ethoxy-4-[[[(2-thienylcarbonyl)oxy]imino]methyl]phenoxy]- (9CI)
MF C16 H16 N2 O5 S



**PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT**

L6 10 ANSWERS REGISTRY COPYRIGHT 2002 ACS
IN Cyclopropanecarboxaldehyde, 2,2-dimethyl-3-phenyl-, O-acetyloxime, [1.alpha.(E),3.beta.]- (9CI)
MF C14 H17 N O2

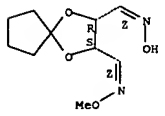
Relative stereochemistry.
Double bond geometry as shown.



**PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT**

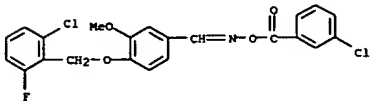
L6 10 ANSWERS REGISTRY COPYRIGHT 2002 ACS
IN 1,4-Dioxaspiro[4.4]nonane-2,3-dicarboxaldehyde, mono(O-methyloxime) monooxime, [2S-[2.alpha.(Z),3.alpha.(Z)]]- (9CI)
MF C10 H16 N2 O4

Absolute stereochemistry.
Double bond geometry as shown.



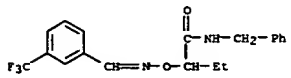
**PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT**

L6 10 ANSWERS REGISTRY COPYRIGHT 2002 ACS
IN Benzaldehyde, 4-[(2-chloro-6-fluorophenyl)methoxy]-3-methoxy-, O-(3-chlorobenzoyl)oxime (9CI)
MF C22 H16 Cl2 F N O4



**PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT**

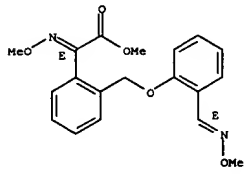
L6 10 ANSWERS REGISTRY COPYRIGHT 2002 ACS
IN Butanamide, N-(phenylmethyl)-2-[[[[3-(trifluoromethyl)phenyl]methylene]amino]oxy]- (9CI)
MF C19 H19 F3 N2 O2



**PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT**

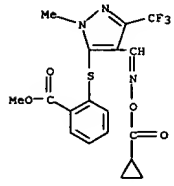
L6 10 ANSWERS REGISTRY COPYRIGHT 2002 ACS
IN Benzeneacetic acid, .alpha.-(methoxyimino)-2-[[2-[(methoxyimino)methyl]phenoxy]methyl]-, methyl ester, (E,E)- (9CI)
MF C19 H20 N2 O5

Double bond geometry as shown.



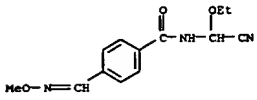
**PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT**

L6 10 ANSWERS REGISTRY COPYRIGHT 2002 ACS
IN Benzoic acid, 2-[[4-[[[(cyclopropylcarbonyl)oxy]imino]methyl]-1-methyl-3-(trifluoromethyl)-1H-pyrazol-5-yl]thio]-, methyl ester (9CI)
MF C18 H16 F3 N3 O4 S



**PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT**

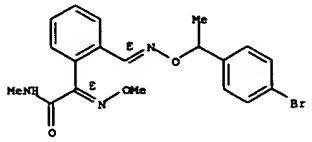
L6 10 ANSWERS REGISTRY COPYRIGHT 2002 ACS
IN Benzamide, N-(cyanoethoxymethyl)-4-[(methoxyimino)methyl]- (9CI)
MF C13 H15 N3 O3



**PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT**

L6 10 ANSWERS REGISTRY COPYRIGHT 2002 ACS
IN Benzeneacetamide, 2-[[[1-(4-bromophenyl)ethoxy]imino]methyl]-.alpha.-(methoxyimino)-N-methyl-, (E,E)- (9CI)
MF C19 H20 Br N3 O3

Double bond geometry as shown.



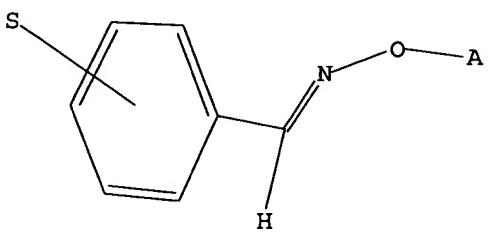
**PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT**

ALL ANSWERS HAVE BEEN SCANNED

=>
Uploading 09734625.str

L7 STRUCTURE UPLOADED

=> d query
L7 STR




A = atoms except H

Structure attributes must be viewed using STN Express query preparation.

=> s l7
SAMPLE SEARCH INITIATED 14:43:07 FILE 'REGISTRY'
SAMPLE SCREEN SEARCH COMPLETED - 1893 TO ITERATE

52.8% PROCESSED 1000 ITERATIONS 4 ANSWERS
INCOMPLETE SEARCH (SYSTEM LIMIT EXCEEDED)
SEARCH TIME: 00.00.01

FULL FILE PROJECTIONS: ONLINE **COMPLETE**
BATCH **COMPLETE**
PROJECTED ITERATIONS: 35251 TO 40469
PROJECTED ANSWERS: 4 TO 316

L8 4 SEA SSS SAM L7

=> s l7 full
FULL SEARCH INITIATED 14:43:13 FILE 'REGISTRY'
FULL SCREEN SEARCH COMPLETED - 37773 TO ITERATE

100.0% PROCESSED 37773 ITERATIONS 224 ANSWERS
SEARCH TIME: 00.00.01

L9 224 SEA SSS FUL L7

=> fil caplus

| COST IN U.S. DOLLARS | SINCE FILE ENTRY | TOTAL SESSION |
|---|---|---|
| FULL ESTIMATED COST | 141.80 | 290.64 |

| DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS) | SINCE FILE ENTRY | TOTAL SESSION |
|---|---|---|
| CA SUBSCRIBER PRICE | 0.00 | -0.62 |

FILE 'CAPLUS' ENTERED AT 14:43:29 ON 29 MAY 2002

FILE COVERS 1907 - 29 May 2002 VOL 136 ISS 22
FILE LAST UPDATED: 27 May 2002 (20020527/ED)

This file contains CAS Registry Numbers for easy and accurate substance identification.

CAS roles have been modified effective December 16, 2001. Please check your SDI profiles to see if they need to be revised. For information on CAS roles, enter HELP ROLES at an arrow prompt or use the CAS Roles thesaurus (/RL field) in this file.

=> s l9
L10 30 L9

=> d l10 1-30 abs ibib hitstr

L10 ANSWER 1 OF 30 CAPLUS COPYRIGHT 2002 ACS

AB The invention relates to a photopolymn. initiator of oxime ester for a photoresist compn., wherein the oxime is deriv. of Ar1-C=N-OR1(H) ( R1 = cycloalkanoyl, benzoyl, alkenoyl; Ar1 = aryl, aroyl). The photopolymn. initiator provides the alkali-developable light-sensitive photoresist compn., which shows the improved storageability, of the high resoln. and the good storageability.

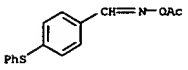
ACCESSION NUMBER: 2001:752026 CAPLUS
DOCUMENT NUMBER: 135:280493
TITLE: Photopolymerization initiator of oxime ester for light-sensitive photoresist composition
INVENTOR(S): Kunimoto, Kazuhiko; Oka, Hidetaka; Ohwa, Masaki; Tanabe, Junichi; Kura, Hisatoshi; Birbaum, Jean Luc
PATENT ASSIGNEE(S): Ciba Specialty Chemicals Holding Inc., Switz.
SOURCE: Fr. Demande, 171 pp.
CODEN: FRXXBL
DOCUMENT TYPE: Patent
LANGUAGE: French
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

| PATENT NO. | KIND | DATE | APPLICATION NO. | DATE |
|---|---|---|---|---|
| FR 2802528 | A1 | 20010622 | FR 2000-16306 | 20001214 |
| NL 1016815 | A1 | 20010618 | NL 2000-1016815 | 20001206 |
| GB 2358017 | B2 | 20020313 | GB 2000-29793 | 20001207 |
| US 2001012596 | A1 | 20010809 | US 2000-734625 | 20001212 |
| JP 2001233842 | A2 | 20010828 | JP 2000-377671 | 20001212 |
| FI 2000002730 | A | 20010616 | FI 2000-2730 | 20001213 |
| DE 10061947 | A1 | 20010621 | DE 2000-10061947 | 20001213 |
| CN 1299812 | A | 20010620 | CN 2000-135980 | 20001215 |
| BR 2000006379 | A | 20010724 | BR 2000-6379 | 20001215 |

PRIORITY APPLN. INFO.: EP 1999-811160 A 19991215
EP 2000-810629 A 20000717

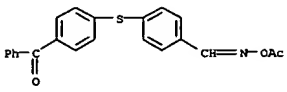
IT **362624-48-4P 362624-51-9P 362624-59-7P 362624-60-0P 362624-61-1P 362624-62-2P 362624-63-3P 362624-64-4P 362624-65-5P 362624-66-6P 362624-67-7P 362624-68-8P 362624-73-5P 362624-84-8P 362624-85-9P 362624-87-1P 362624-88-2P 362624-89-3P 362624-94-0P 362624-96-2P 362625-00-1P 362625-01-2P**
RL: CAT (Catalyst use); SPN (Synthetic preparation); PREP (Preparation); USES (Uses)
(light-sensitive color filter compn. contg. oxime esters used in optical imaging devices)

RN 362624-48-4 CAPLUS
CN Benzaldehyde, 4-(phenylthio)-, O-acetyloxime (9CI) (CA INDEX NAME)

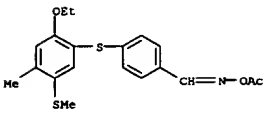


RN 362624-51-9 CAPLUS
CN Benzaldehyde, 2,4-dimethyl-6-(methylthio)-, O-benzoyloxime (9CI) (CA INDEX NAME)

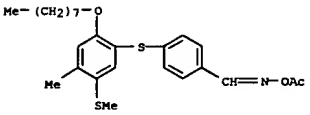
L10 ANSWER 1 OF 30 CAPLUS COPYRIGHT 2002 ACS (Continued)



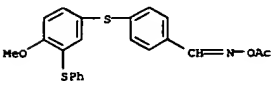
RN 362624-64-4 CAPLUS
CN Benzaldehyde, 4-[[2-ethoxy-4-methyl-5-(methylthio)phenyl]thio]-, O-acetyloxime (9CI) (CA INDEX NAME)



RN 362624-65-5 CAPLUS
CN Benzaldehyde, 4-[[4-methyl-5-(methylthio)-2-(octyloxy)phenyl]thio]-, O-acetyloxime (9CI) (CA INDEX NAME)

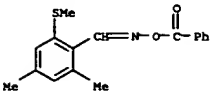


RN 362624-66-6 CAPLUS
CN Benzaldehyde, 4-[[4-methoxy-3-(phenylthio)phenyl]thio]-, O-acetyloxime (9CI) (CA INDEX NAME)

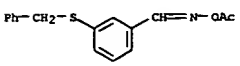


RN 362624-67-7 CAPLUS
CN Benzaldehyde, 4-[[3-phenoxy-4-(phenylthio)phenyl]thio]-, O-acetyloxime (9CI) (CA INDEX NAME)

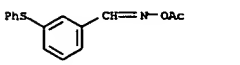
L10 ANSWER 1 OF 30 CAPLUS COPYRIGHT 2002 ACS (Continued)



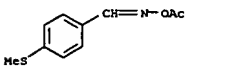
RN 362624-59-7 CAPLUS
CN Benzaldehyde, 3-[(phenylmethyl)thio]-, O-acetyloxime (9CI) (CA INDEX NAME)



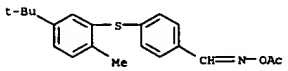
RN 362624-60-0 CAPLUS
CN Benzaldehyde, 3-(phenylthio)-, O-acetyloxime (9CI) (CA INDEX NAME)



RN 362624-61-1 CAPLUS
CN Benzaldehyde, 4-(methylthio)-, O-acetyloxime (9CI) (CA INDEX NAME)

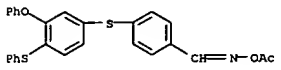


RN 362624-62-2 CAPLUS
CN Benzaldehyde, 4-[[5-(1,1-dimethylethyl)-2-methylphenyl]thio]-, O-acetyloxime (9CI) (CA INDEX NAME)

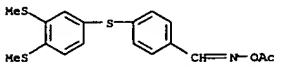


RN 362624-63-3 CAPLUS
CN Benzaldehyde, 4-[(4-benzoylphenyl)thio]-, 1-(O-acetyloxime) (9CI) (CA INDEX NAME)

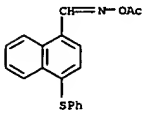
L10 ANSWER 1 OF 30 CAPLUS COPYRIGHT 2002 ACS (Continued)



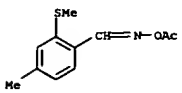
RN 362624-68-8 CAPLUS
CN Benzaldehyde, 4-[[3,4-bis(methylthio)phenyl]thio]-, O-acetyloxime (9CI) (CA INDEX NAME)



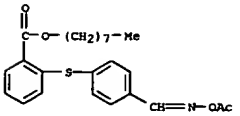
RN 362624-73-5 CAPLUS
CN 1-Naphthalenecarboxaldehyde, 4-(phenylthio)-, O-acetyloxime (9CI) (CA INDEX NAME)



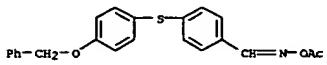
RN 362624-84-8 CAPLUS
CN Benzaldehyde, 4-methyl-2-(methylthio)-, O-acetyloxime (9CI) (CA INDEX NAME)



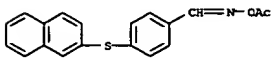
RN 362624-85-9 CAPLUS
CN Benzoic acid, 2-[[4-[[(acetyloxy)imino]methyl]phenyl]thio]-, octyl ester (9CI) (CA INDEX NAME)



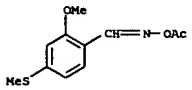
RN 362624-87-1 CAPLUS
CN Benzaldehyde, 4-[[4-(phenylmethoxy)phenyl]thio]-, O-acetyloxime (9CI) (CA INDEX NAME)



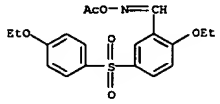
RN 362624-88-2 CAPLUS
CN Benzaldehyde, 4-(2-naphthalenylthio)-, O-acetyloxime (9CI) (CA INDEX NAME)



RN 362624-89-3 CAPLUS
CN Benzaldehyde, 2-methoxy-4-(methylthio)-, O-acetyloxime (9CI) (CA INDEX NAME)

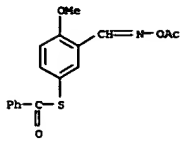


RN 362624-94-0 CAPLUS
CN Benzaldehyde, 2-ethoxy-5-[[4-ethoxyphenyl]sulfonyl]-, O-acetyloxime (9CI) (CA INDEX NAME)

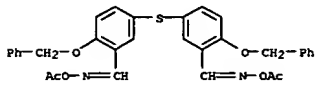


RN 362624-96-2 CAPLUS
CN Benzenecarbothioic acid, S-[3-[[(acetyloxy)imino]methyl]-4-methoxyphenyl] ester (9CI) (CA INDEX NAME)

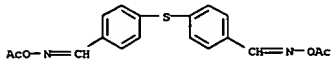




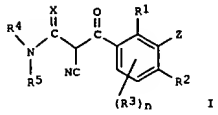
RN 362625-00-1 CAPLUS
CN Benzaldehyde, 3,3'-thiobis[6-(phenylmethoxy)-, 1,1'-bis(O-acetyloxime) (9CI) (CA INDEX NAME)



RN 362625-01-2 CAPLUS
CN Benzaldehyde, 4,4'-thiobis-, 1,1'-bis(O-acetyloxime) (9CI) (CA INDEX NAME)




GI



I

AB The title compds. I [R1 and R2 are each hydrogen, nitro, cyano, halogeno, C1-6 alkyl, C1-6 alkylsulfonyl, or the like; R3 is nitro, cyano, halogeno, C1-6 alkyl, or the like; n is 0, 1 or 2; R4 and R5 are each hydrogen, C1-6 alkyl, C1-6 alkoxy, or the like, or alternatively they may be united to form an alkylene chain, a heterocyclic group, or the like; X is oxygen or sulfur; and Z is formyl, di(C1-6 alkoxy)methyl, Ph, a heterocyclic group, or the like] are prepd. 3-(Azetidin-1-yl)-2-[2-methyl-3-(3-methylisoxazol-5-yl)-4-(methylsulfonyl)phenyl]-3-oxopropanenitrile at 250 g/ha gave 80% to 89% control of Abutilon avicennae.

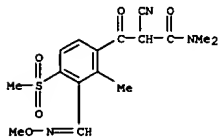
ACCESSION NUMBER: 2001:581835 CAPLUS
DOCUMENT NUMBER: 135:152794
TITLE: Preparation of substituted cyanoacetamide derivatives as herbicides
INVENTOR(S): Yamanaka, Hiroyuki; Kajita, Satoshi; Tanaka, Katsunori; Koguchi, Masami; Yamada, Shigeo; Takahashi, Akihiro
PATENT ASSIGNEE(S): Nippon Soda Co., Ltd, Japan
SOURCE: PCT Int. Appl., 54 pp.
CODEN: PIXXD2
DOCUMENT TYPE: Patent
LANGUAGE: Japanese
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

| PATENT NO. | KIND | DATE | APPLICATION NO. | DATE |
|---|---|---|---|---|
| WO 2001056979 | A1 | 20010809 | WO 2001-JP603 | 20010130 |

W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CR, CU, CZ, DE, DK, DM, DZ, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM
RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG

PRIORITY APPLN. INFO.: JP 2000-27226 A 20000131
JP 2000-304838 A 20001004
OTHER SOURCE(S): MARPAT 135:152794
IT 353237-57-7P
RL: AGR (Agricultural use); BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); SPN (Synthetic

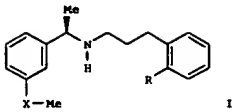

preparation); BIOL (Biological study); PREP (Preparation); USES (Uses) (prepn. of substituted cyanoacetamide derivs. as herbicides)
RN 353237-57-7 CAPLUS
CN Benzenepropanamide, .alpha.-cyano-3-[(methoxyimino)methyl]-N,N,2-trimethyl-4-(methylsulfonyl)-.beta.-oxo- (9CI) (CA INDEX NAME)



REFERENCE COUNT: 9 THERE ARE 9 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE

FORMAT

L10 ANSWER 3 OF 30 CAPLUS COPYRIGHT 2002 ACS
GI



I

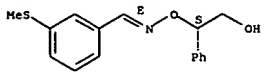
AB Chiral (E)-arylaldehyde oxime ethers, prepd. using (R)-1-phenyl-1,2-ethanediol as a chiral auxiliary, underwent nucleophilic addn. with MeLi to give diastereomerically enriched O-alkyl hydroxylamines in 28-85% yields which, after reductive N-O bond cleavage, gave (R)-1-(aryl)ethylamines in 73-95% yields. This methodol. as applied to the enantioselective synthesis of the calcimimetic arylalkylamines (R)-(+)-NPS R-568 (I; X = O; R = Cl) and a thio analog I (X = S; R = H).

ACCESSION NUMBER: 2001:498899 CAPLUS
DOCUMENT NUMBER: 135:318273
TITLE: Nucleophilic addition of methyllithium to chiral oxime ethers: asymmetric preparation of 1-(aryl)ethylamines and application to a synthesis of calcimimetics (+)-NPS R-568 and its thio analogue
AUTHOR(S): Yamazaki, N.; Atobe, M.; Kibayashi, C.
CORPORATE SOURCE: School of Pharmacy, Tokyo University of Pharmacy and Life Science, Hachioji, Tokyo, 192-0392, Japan
SOURCE: Tetrahedron Letters (2001), 42(30), 5029-5032
CODEN: TELEAY; ISSN: 0040-4039
PUBLISHER: Elsevier Science Ltd.
DOCUMENT TYPE: Journal
LANGUAGE: English

IT 368447-70-5P
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)
(asym. prepn. of N-(phenylpropyl)phenylethylamines from benzaldehyde O-(hydroxyphenylethyl)oximes via MeLi addn. and chiral N-(phenylethyl)hydroxylamine intermediates)

RN 368447-70-5 CAPLUS
CN Benzaldehyde, 3-(methylthio)-, O-[(1S)-2-hydroxy-1-phenylethyl]oxime, [C(E)]- (9CI) (CA INDEX NAME)

Absolute stereochemistry.
Double bond geometry as shown.



REFERENCE COUNT: 29 THERE ARE 29 CITED REFERENCES AVAILABLE FOR THIS
RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

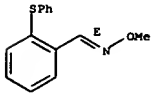
L10 ANSWER 4 OF 30 CAPLUS COPYRIGHT 2002 ACS
AB Flash vacuum pyrolysis (FVP) of oxime ethers MeON:CRC6H4SPh-4 (R = H, Me, Ph) and of sulfides ArN:CRC6H4SCH2Ph-4 (R = H, Me, Ph; Ar = Ph, p-tolyl) at 650 .degree.C (10-2-10-3 Torr) gave products derived from the corresponding iminyl and thiophenoxyl radicals. In all cases, benz[d]isothiazoles are formed as major products via SHi mechanisms though the yields are greatest with the iminyl precursors. Alternative pathways obsd. from the thiophenoxyls in specific cases include the formation of 3-anilinobenzothiophene and of dibenzothiophene, via an SHi process and a spirodienyl rearrangement, resp. There is no evidence for significant interconversion of the iminyl and thiophenoxyl species.

ACCESSION NUMBER: 2001:314402 CAPLUS
DOCUMENT NUMBER: 135:195511
TITLE: Gas-phase cyclization reactions of 1-(2-arylthiophenyl)alkaniminyl and 2-(aryliminomethyl)thiophenoxyl radicals
AUTHOR(S): Creed, Tim; Leardini, Rino; McNab, Hamish; Nanni, Daniele; Nicolson, Iain S.; Reed, David
CORPORATE SOURCE: Department of Chemistry, The University of Edinburgh, Edinburgh, EH9 3JJ, UK
SOURCE: Journal of the Chemical Society, Perkin Transactions 1
(2001), (9), 1079-1085
CODEN: JCSPCE; ISSN: 1472-7781
PUBLISHER: Royal Society of Chemistry
DOCUMENT TYPE: Journal
LANGUAGE: English

IT 356790-07-3P
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)
(gas-phase cyclization reactions of (arylthiophenyl)alkaniminyl and (aryliminomethyl)thiophenoxyl radicals)

RN 356790-07-3 CAPLUS
CN Benzaldehyde, 2-(phenylthio)-, O-methyloxime, [C(E)]- (9CI) (CA INDEX NAME)

Double bond geometry as shown.



REFERENCE COUNT: 31 THERE ARE 31 CITED REFERENCES AVAILABLE FOR THIS
RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

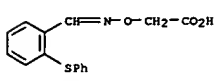
L10 ANSWER 3 OF 30 CAPLUS COPYRIGHT 2002 ACS (Continued)

L10 ANSWER 5 OF 30 CAPLUS COPYRIGHT 2002 ACS
AB Some o-(phenylsulfanyl)- and o-(phenylsulfonyl)-substituted phenyliminyl radicals have been generated by thermal decompn. of suitable tert-Bu iminoxyperacetates. The sulfanyl-substituted iminyls showed no tendency to give either 1,7- or 1,6-ring closure onto the S-Ph ring. They gave instead 1,5-cyclization onto the sulfur atom with release of a Ph radical and formation of benzoisothiazoles. This seems to be the first example of SHi reaction of a nitrogen-centered radical at a sulfide moiety. On the other hand, the sulfonyl-substituted iminyl underwent 1,6-cyclization to a small extent, furnishing a phenanthridine through an unprecedented 1,5-aryl radical migration from sulfur to nitrogen followed by loss of sulfur dioxide and ring closure of an aryl radical.

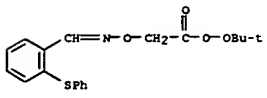
ACCESSION NUMBER: 2001:314401 CAPLUS
DOCUMENT NUMBER: 135:152605
TITLE: Thermal decomposition of tert-butyl o-(phenylsulfanyl)- and o-(phenylsulfonyl)phenyliminoxyperacetates: The reactivity of thio-substituted iminyl radicals
AUTHOR(S): Leardini, Rino; McNab, Hamish; Minozzi, Matteo; Nanni, Daniele
CORPORATE SOURCE: Dipartimento di Chimica Organica "A. Mangini", Universita di Bologna, Bologna, I-40136, Italy
SOURCE: Journal of the Chemical Society, Perkin Transactions 1
(2001), (9), 1072-1078
CODEN: JCSPCE; ISSN: 1472-7781
PUBLISHER: Royal Society of Chemistry
DOCUMENT TYPE: Journal
LANGUAGE: English

IT 352427-04-4P 352427-08-8P
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)
(reactivity of thio-substituted iminyl radicals in thermal decompn. of tert-Bu (phenylsulfanyl)- and (phenylsulfonyl)phenyliminoxyperacetates)

RN 352427-04-4 CAPLUS
CN Acetic acid, [[[[2-(phenylthio)phenyl]methylene]amino]oxy]- (9CI) (CA INDEX NAME)

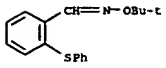


RN 352427-08-8 CAPLUS
CN Ethaneperoxoic acid, [[[[2-(phenylthio)phenyl]methylene]amino]oxy]-, 1,1-dimethylethyl ester (9CI) (CA INDEX NAME)

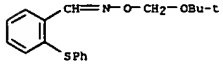


L10 ANSWER 5 OF 30 CAPLUS COPYRIGHT 2002 ACS (Continued)

IT **352427-12-4P 352427-13-5P**
RL: SPN (Synthetic preparation); PREP (Preparation)
(reactivity of thio-substituted iminyl radicals in thermal decompn. of tert-Bu (phenylsulfanyl)- and (phenylsulfonyl)phenyliminoxyperacetates)
RN 352427-12-4 CAPLUS
CN Benzaldehyde, 2-(phenylthio)-, O-(1,1-dimethylethyl)oxime (9CI) (CA INDEX NAME)

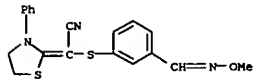


RN 352427-13-5 CAPLUS
CN Benzaldehyde, 2-(phenylthio)-, O-[(1,1-dimethylethoxy)methyl]oxime (9CI) (CA INDEX NAME)

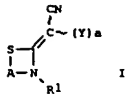


REFERENCE COUNT: 94 THERE ARE 94 CITED REFERENCES AVAILABLE FOR THIS
RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L10 ANSWER 6 OF 30 CAPLUS COPYRIGHT 2002 ACS (Continued)
thiazolidinylidene)- (9CI) (CA INDEX NAME)



L10 ANSWER 6 OF 30 CAPLUS COPYRIGHT 2002 ACS
GI



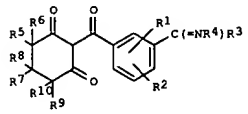
I

AB Title compds. I [R = C1-20 alkyl, C3-8 cycloalkyl, aryl, aryl(C1-4 alkyl), heteroaryl, etc.; R1 = C1-8 alkyl, C3-8 cycloalkyl, aryl, aryl(C1-4 alkyl), heteroaryl, etc.; A = C1-6 alkylene, C2-6 alkenylene, CH2BCH2, CH2OBCH2, ZCO; B = phenylene; Z = C1-4 alkylene; Y = S, sulfinyl, sulfonyl; a = 0-1] are prepd. 4-Chlorophenyl isocyanate was reacted with phenylthioacetonitrile and 1,2-dibromoethane in DMF at room temp. for 3 h to give 30% 2-(4-chlorophenylthio)-2-(3-phenyl-1,3-thiazolidin-2-ylidene)acetonitrile showing good microbicidal activity.
ACCESSION NUMBER: 2000:817502 CAPLUS
DOCUMENT NUMBER: 133:350209
TITLE: Preparation of cyanomethylenethiazolidines and microbicides for agriculture and horticulture
INVENTOR(S): Hayashi, Masatoshi; Endo, Yasuhiro; Komura, Tomozo
PATENT ASSIGNEE(S): Ohtsuka Chemical Co., Ltd., Japan
SOURCE: Jpn. Kokai Tokkyo Koho, 40 pp.
CODEN: JKXXAF
DOCUMENT TYPE: Patent
LANGUAGE: Japanese
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

| PATENT NO. | KIND | DATE | APPLICATION NO. | DATE |
|---|---|---|---|---|
| JP 2000319270 | A2 | 20001121 | JP 1999-367615 | 19991224 |
| WO 2001047902 | A1 | 20010705 | WO 2000-JP6001 | 20000905 |
| W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CR, CU, CZ, DE, DK, DM, DZ, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, KE, KG, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM | | | | |
| RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG | | | | |

PRIORITY APPLN. INFO.: JP 1999-64656 A 19990311
JP 1999-367615 A 19991224
OTHER SOURCE(S): MARPAT 133:350209
IT **304900-32-1P**
RL: AGR (Agricultural use); BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); SPN (Synthetic preparation); BIOL (Biological study); PREP (Preparation); USES (Uses)
(prepn. of cyanomethylenethiazolidines and microbicides for agriculture and horticulture)
RN 304900-32-1 CAPLUS
CN Acetonitrile, [[3-[(methoxyimino)methyl]phenyl]thio](3-phenyl-2-

L10 ANSWER 7 OF 30 CAPLUS COPYRIGHT 2002 ACS
GI

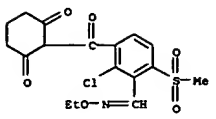


I

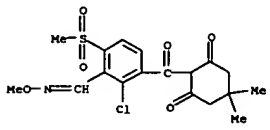
AB Herbicides contain title compds. I [R1, R2 = H, halo, C1-6 (halo)alkyl, C1-6 (halo)alkoxy, C1-6 alkylthio, C1-6 alkylsulfinyl, C1-6 alkylsulfonyl; R3 = H, C1-6 alkyl; R4 = OH, C1-6 (halo)alkyl, C2-6 (halo)alkenyl, C2-6 (halo)alkynyl, C3-8 cycloalkyl, C1-6 (halo)alkoxy, etc.; R5-R10 = H, cyano, CHO, halo, C1-6 (halo)alkyl, C1-6 (halo)alkoxy, C1-6 alkylthio, etc.; R5R6, R7R8, R9R10 = O, C2-4 alkylene; R6R8 = C1-4 alkylene] or their salts. 2,4-Dichloro-3-ethoxyiminobenzoyl chloride (0.50 g) was condensed with 0.21 g cyclohexane-1,3-dione in CH2Cl2 in the presence of Et3N at room temp. for 1 h to give 0.31 g I (R1 = 2-Cl, R2 = 4-Cl, R3 = R5-R10 = H, R4 = OEt). I (R1 = 2-Cl, R2 = 4-SO2Me, R3 = R5 = R6 = R9 = R10 = H, R4 = OMe, R7 = R8 = Me) (at 250 g/ha) showed 100% control of Abutilon theophrasti, Amaranthus lividus, etc. with no damage on corn.
ACCESSION NUMBER: 1999:65317 CAPLUS
DOCUMENT NUMBER: 130:178766
TITLE: Benzoylcyclohexanediones and herbicides containing them
INVENTOR(S): Tanaka, katsunori; Adachi, Koushi; Yamaguchi, Masao; Koguchi, Masami; Kawana, Takashi; Takahashi, Akihiro
PATENT ASSIGNEE(S): Nippon Soda Co., Ltd., Japan
SOURCE: Jpn. Kokai Tokkyo Koho, 56 pp.
CODEN: JKXXAF
DOCUMENT TYPE: Patent
LANGUAGE: Japanese
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

| PATENT NO. | KIND | DATE | APPLICATION NO. | DATE |
|---|---|---|---|---|
| JP 11021274 | A2 | 19990126 | JP 1997-190499 | 19970701 |

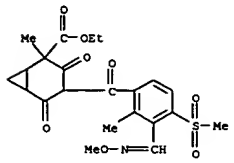
OTHER SOURCE(S): MARPAT 130:178766
IT **220657-81-8 220657-82-9 220657-87-4**
RL: AGR (Agricultural use); BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); BIOL (Biological study); USES (Uses)
(prepn. of benzoylcyclohexanediones as herbicides)
RN 220657-81-8 CAPLUS
CN Benzaldehyde, 2-chloro-3-[(2,6-dioxocyclohexyl)carbonyl]-6-(methylsulfonyl)-, 1-(O-ethyloxime) (9CI) (CA INDEX NAME)



RN 220657-82-9 CAPLUS
CN Benzaldehyde, 2-chloro-3-[(4,4-dimethyl-2,6-dioxocyclohexyl)carbonyl]-6-(methylsulfonyl)-, 1-(O-methyloxime) (9CI) (CA INDEX NAME)

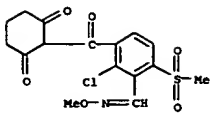


RN 220657-87-4 CAPLUS
CN Bicyclo[4.1.0]heptane-2-carboxylic acid, 4-[3-[(methoxyimino)methyl]-2-methyl-4-(methylsulfonyl)benzoyl]-2-methyl-3,5-dioxo-, ethyl ester (9CI) (CA INDEX NAME)

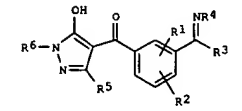


IT 220657-80-7P
RL: AGR (Agricultural use); BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); SPN (Synthetic preparation); BIOL (Biological study); PREP (Preparation); USES (Uses)
(prepn. of benzoylcyclohexanediones as herbicides)
RN 220657-80-7 CAPLUS
CN Benzaldehyde, 2-chloro-3-[(2,6-dioxocyclohexyl)carbonyl]-6-(methylsulfonyl)-, 1-(O-methyloxime) (9CI) (CA INDEX NAME)

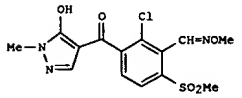








I



II

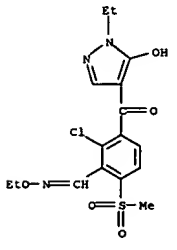
AB Compds. of general formula (I; wherein R1 and R2 independently represent each halogen, C1-6 alkyl, C1-6 alkoxy, C1-6 haloalkoxy, C1-6 alkylthio, C1-6 alkylsulfinyl, or C1-6 alkylsulfonyl; R3 represents H or C1-6 alkyl; R4 represents OH, C1-6 alkyl, C1-6 haloalkyl, C2-6 alkenyl, C2-6 haloalkenyl, C2-6 alkynyl, C2-6 haloalkynyl, C3-8 cycloalkyl, C1-6 alkoxy, C1-6 alkoxy-C1-6 alkyl, etc.; and R5 and R6 independently represent each hydrogen, C1-6 alkyl, C1-6 haloalkyl, C2-6 alkenyl, C2-6 alkynyl, or C3-8 cycloalkyl) and salts thereof, which are herbicides having a high crop selectivity, are prepd. Thus, 2-chloro-4-methanesulfonyl-3-dimethoxymethylbenzoic acid was condensed with 1-methyl-5-hydroxypyrazole hydrochloride in the presence of Et3N and DCC in EtOAc followed by treating the product with acetone cyanohydrin and Et3N in CHCl3 at room temp. for 6 h to give 1-methyl-5-hydroxy-4-(2-chloro-4-methanesulfonyl-3-dimethoxymethyl)pyrazole. The latter compd. was refluxed with a mixt. of concd. HCl and acetone for 1 h to give 1-methyl-5-hydroxy-4-(2-chloro-4-methanesulfonyl-3-formylbenzoyl)pyrazole which was condensed with methoxyamine in CHCl3 at room temp. for 1 h to give the title compd. (II).
II at 250 g/ha post emergence controlled 100% Amaranthus Blitum, Xanthium pensylvanicum, and Setaria faberii and gave no damage to corn seedlings.

ACCESSION NUMBER: 1998:682370 CAPLUS
DOCUMENT NUMBER: 129:302634
TITLE: Preparation of 4-benzoylpyrazole derivatives as herbicides
INVENTOR(S): Tanaka, Katsunori; Adachi, Hiroyuki; Miyahara, Osamu; Koguchi, Masami; Takahashi, Akihiro; Kawana, Takashi
PATENT ASSIGNEE(S): Nippon Soda Co., Ltd., Japan
SOURCE: PCT Int. Appl., 52 pp.
CODEN: PIXXD2
DOCUMENT TYPE: Patent
LANGUAGE: Japanese
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

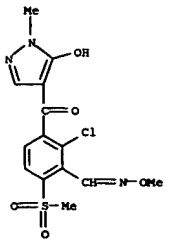
| PATENT NO. | KIND | DATE | APPLICATION NO. | DATE |
|---|---|---|---|---|
| WO 9845273 | A1 | 19981015 | WO 1998-JP1583 | 19980406 |
| W: AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CU, CZ, DE, DK, EE, ES, FI, GB, GE, GH, GM, GW, HU, ID, IL, IS, KE, KG, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, UA, UG, US, UZ, VN, YU, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM | | | | |
| RW: GH, GM, KE, LS, MW, SD, SZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA, GN, ML, MR, NE, SN, TD, TG | | | | |
| AU 9865234 | A1 | 19981030 | AU 1998-65234 | 19980406 |
| JP 10338675 | A2 | 19981222 | JP 1998-108455 | 19980406 |
| PRIORITY APPLN. INFO.: | | | JP 1997-89233 | 19970408 |
| | | | WO 1998-JP1583 | 19980406 |

OTHER SOURCE(S): MARPAT 129:302634

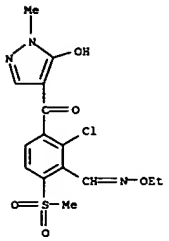
IT **209795-46-0P 209795-52-8P 209795-53-9P**
**214476-43-4P 214476-44-5P 214476-49-0P**
**214476-52-5P 214476-53-6P 214476-54-7P**
**214476-56-9P 214476-57-0P 214476-58-1P**
**214476-59-2P**
RL: AGR (Agricultural use); BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); SPN (Synthetic preparation); BIOL (Biological study); PREP (Preparation); USES (Uses)
(prepn. of benzoylpyrazole derivs. as herbicides)
RN 209795-46-0 CAPLUS
CN Benzaldehyde, 2-chloro-3-[(1-ethyl-5-hydroxy-1H-pyrazol-4-yl)carbonyl]-6-(methylsulfonyl)-, 1-(O-ethyloxime) (9CI) (CA INDEX NAME)



RN 209795-52-8 CAPLUS
CN Benzaldehyde,
2-chloro-3-[(5-hydroxy-1-methyl-1H-pyrazol-4-yl)carbonyl]-6-(methylsulfonyl)-, 1-(O-methyloxime) (9CI) (CA INDEX NAME)

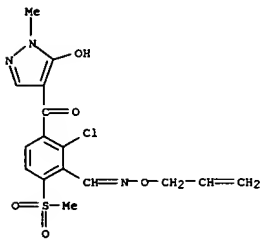


RN 209795-53-9 CAPLUS
CN Benzaldehyde, 2-chloro-3-[(5-hydroxy-1-methyl-1H-pyrazol-4-yl)carbonyl]-6-(methylsulfonyl)-, 1-(O-ethyloxime) (9CI) (CA INDEX NAME)

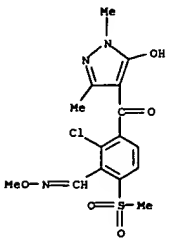


RN 214476-43-4 CAPLUS
CN Benzaldehyde, 2-chloro-3-[(5-hydroxy-1-methyl-1H-pyrazol-4-yl)carbonyl]-6-(methylsulfonyl)-, 1-[O-(3-chloro-2-propenyl)oxime] (9CI) (CA INDEX NAME)



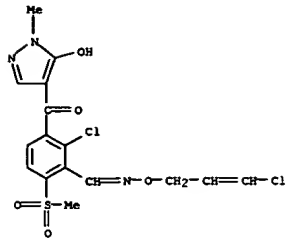


RN 214476-52-5 CAPLUS
CN Benzaldehyde, 2-chloro-3-[(5-hydroxy-1,3-dimethyl-1H-pyrazol-4-yl)carbonyl]-6-(methylsulfonyl)-, 1-(O-methyloxime) (9CI) (CA INDEX NAME)

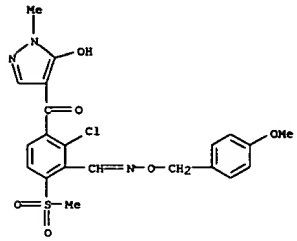


RN 214476-53-6 CAPLUS
CN Benzaldehyde, 2-chloro-3-[(5-hydroxy-1-methyl-1H-pyrazol-4-yl)carbonyl]-6-(methylsulfonyl)-, 1-[O-(1-methylethyl)oxime] (9CI) (CA INDEX NAME)



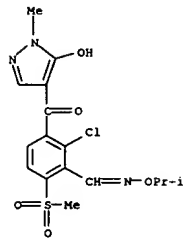


RN 214476-44-5 CAPLUS
CN Benzaldehyde, 2-chloro-3-[(5-hydroxy-1-methyl-1H-pyrazol-4-yl)carbonyl]-6-(methylsulfonyl)-, 1-[O-[(4-methoxyphenyl)methyl]oxime] (9CI) (CA INDEX NAME)

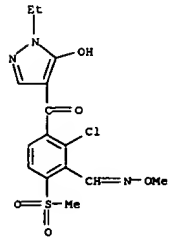


RN 214476-49-0 CAPLUS
CN Benzaldehyde, 2-chloro-3-[(5-hydroxy-1-methyl-1H-pyrazol-4-yl)carbonyl]-6-(methylsulfonyl)-, 1-(O-2-propenyloxime) (9CI) (CA INDEX NAME)

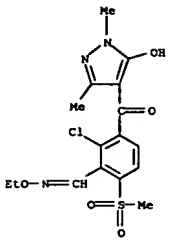




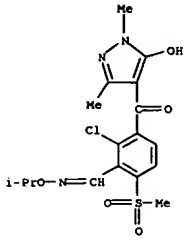
RN 214476-54-7 CAPLUS
CN Benzaldehyde, 2-chloro-3-[(1-ethyl-5-hydroxy-1H-pyrazol-4-yl)carbonyl]-6-(methylsulfonyl)-, 1-(O-methyloxime) (9CI) (CA INDEX NAME)



RN 214476-56-9 CAPLUS
CN Benzaldehyde, 2-chloro-3-[(5-hydroxy-1,3-dimethyl-1H-pyrazol-4-yl)carbonyl]-6-(methylsulfonyl)-, 1-(O-ethyloxime) (9CI) (CA INDEX NAME)

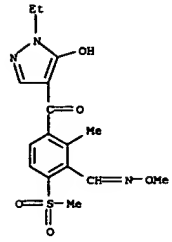


RN 214476-57-0 CAPLUS
CN Benzaldehyde, 2-chloro-3-[(5-hydroxy-1,3-dimethyl-1H-pyrazol-4-yl)carbonyl]-6-(methylsulfonyl)-, 1-[O-(1-methylethyl)oxime] (9CI) (CA INDEX NAME)

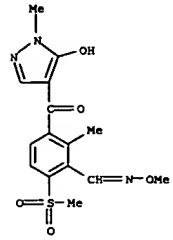


RN 214476-58-1 CAPLUS
CN Benzaldehyde, 3-[(1-ethyl-5-hydroxy-1H-pyrazol-4-yl)carbonyl]-2-methyl-6-(methylsulfonyl)-, 1-(O-methyloxime) (9CI) (CA INDEX NAME)

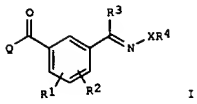




RN 214476-59-2 CAPLUS
CN Benzaldehyde, 3-[(5-hydroxy-1-methyl-1H-pyrazol-4-yl)carbonyl]-2-methyl-6-(methylsulfonyl)-, 1-(O-methyloxime) (9CI) (CA INDEX NAME)




GI



I

AB Title compds. [I; R1, R2 = H, NO2, halo, cyano, rhodano, alkyl, haloalkyl, alkoxyalkyl, alkenyl, alkynyl, OR5, OCOR6, OSO2R6, SH, SOnR7, SO2OR5, SO2NR5R8, NR8SO2R6, NR8COR6; R3 = H, cyano, alkyl, haloalkyl, OR7, SR7, NR7R10; R4 = H, (substituted) alkyl, cycloalkyl, alkenyl, cycloalkenyl, alkynyl, COR9, CO2R9, COSR9 CONR8R9; X = O, NR8; n = 0, 1, 2; R5 = H, alkyl, haloalkyl, alkoxyalkyl, alkenyl, alkynyl; R6 = alkyl, haloalkyl; R7 = alkyl, haloalkyl, alkoxyalkyl, alkenyl, alkynyl; R8 = H, alkyl; R9 = alkyl, alkenyl, alkynyl, Ph, PhCH2; R10 = alkyl, haloalkyl, alkenyl, alkynyl; Q = substituted pyrazol-4-yl], were prepd. as herbicides (no data). Thus, 2,4-dichloro-3-ethoxyiminomethylbenzoic acid, 2-ethyl-3-hydroxypyrazole, and DCC were stirred 12 h in MeCN at room temp. to give 4-(2,4-dichloro-3-ethoxyiminomethylbenzoyl)-2-ethyl-3-hydroxypyrazole.

ACCESSION NUMBER: 1998:485043 CAPLUS
DOCUMENT NUMBER: 129:95490
TITLE: Preparation of substituted 4-benzoylpyrazoles as herbicides.
INVENTOR(S): Hill, Regina Luise; Kardorff, Uwe; Rack, Michael; Gotz, Norbert; Baumann, Ernst; Von Deyn, Wolfgang; Engel, Stefan; Mayer, Guido; Otten, Martina; Reinheimer, Joachim; Witschel, Matthias; Misslitz, Ulf; Walter, Helmut; Westphalen, Karl-otto
PATENT ASSIGNEE(S): BASF A.-G., Germany
SOURCE: PCT Int. Appl., 296 pp.
CODEN: PIXXD2
DOCUMENT TYPE: Patent
LANGUAGE: German
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

| PATENT NO. | KIND | DATE | APPLICATION NO. | DATE |
|---|---|---|---|---|
| WO 9829392 | A1 | 19980709 | WO 1997-EP7210 | 19971219 |
| W: AL, AU, BG, BR, BY, CA, CN, CZ, GE, HU, ID, IL, JP, KR, KZ, LT, LV, MX, NO, NZ, PL, RO, RU, SG, SI, SK, TR, UA, US, UZ, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM | | | | |
| RW: AT, BE, CH, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE | | | | |
| DE 19700096 | A1 | 19980709 | DE 1997-19700096 | 19970103 |
| AU 9860908 | A1 | 19980731 | AU 1998-60908 | 19971219 |
| AU 744201 | B2 | 20020221 | | |
| EP 960100 | A1 | 19991201 | EP 1997-954936 | 19971219 |



R: AT, BE, CH, DE, DK, ES, FR, GB, IT, LI, NL, PT

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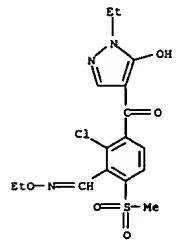
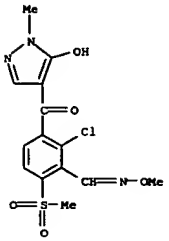
|---|---|---|---|---|
| CN 1247532 | A | 20000315 | CN 1997-181884 | 19971219 |
| BR 9714257 | A | 20000418 | BR 1997-14257 | 19971219 |
| JP 2001508421 | T2 | 20010626 | JP 1998-529588 | 19971219 |
| ZA 9800007 | A | 19990702 | ZA 1998-7 | 19980102 |
| US 6028035 | A | 20000222 | US 1999-331671 | 19990623 |

PRIORITY APPLN. INFO.: DE 1997-19700096 A 19970103
WO 1997-EP7210 W 19971219

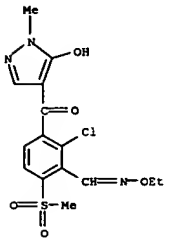
OTHER SOURCE(S): MARPAT 129:95490
IT 209795-46-0P 209795-52-8P 209795-53-9P 209795-55-1P 209795-56-2P 209795-57-3P 209795-58-4P 209795-59-5P 209795-62-0P 209795-72-2P 209795-73-3P 209795-74-4P 209795-75-5P 209795-76-6P 209795-78-8P
RL: BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)
(prepn. of substituted 4-benzoylpyrazoles as herbicides)
RN 209795-46-0 CAPLUS
CN Benzaldehyde, 2-chloro-3-[(1-ethyl-5-hydroxy-1H-pyrazol-4-yl)carbonyl]-6-(methylsulfonyl)-, 1-(O-ethyloxime) (9CI) (CA INDEX NAME)



RN 209795-52-8 CAPLUS
CN Benzaldehyde, 2-chloro-3-[(5-hydroxy-1-methyl-1H-pyrazol-4-yl)carbonyl]-6-(methylsulfonyl)-, 1-(O-methyloxime) (9CI) (CA INDEX NAME)

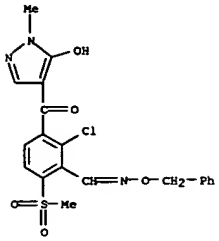


RN 209795-53-9 CAPLUS
CN Benzaldehyde, 2-chloro-3-[(5-hydroxy-1-methyl-1H-pyrazol-4-yl)carbonyl]-6-(methylsulfonyl)-, 1-(O-ethyloxime) (9CI) (CA INDEX NAME)

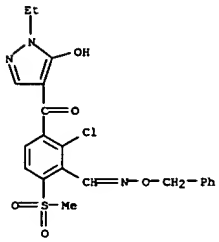


RN 209795-55-1 CAPLUS
CN Benzaldehyde, 2-chloro-3-[(5-hydroxy-1-methyl-1H-pyrazol-4-yl)carbonyl]-6-(methylsulfonyl)-, 1-[O-(phenylmethyl)oxime] (9CI) (CA INDEX NAME)

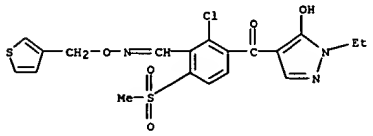




RN 209795-56-2 CAPLUS
CN Benzaldehyde, 2-chloro-3-[(1-ethyl-5-hydroxy-1H-pyrazol-4-yl)carbonyl]-6-(methylsulfonyl)-, 1-[O-(phenylmethyl)oxime] (9CI) (CA INDEX NAME)

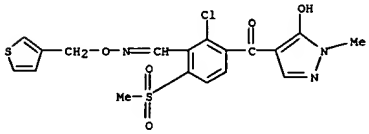


RN 209795-57-3 CAPLUS
CN Benzaldehyde, 2-chloro-3-[(1-ethyl-5-hydroxy-1H-pyrazol-4-yl)carbonyl]-6-(methylsulfonyl)-, 1-[O-(3-thienylmethyl)oxime] (9CI) (CA INDEX NAME)

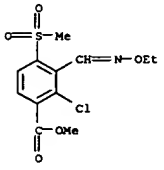




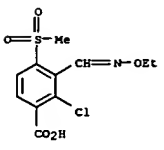
RN 209795-58-4 CAPLUS
CN Benzaldehyde, 2-chloro-3-[(5-hydroxy-1-methyl-1H-pyrazol-4-yl)carbonyl]-6-(methylsulfonyl)-, 1-[O-(3-thienylmethyl)oxime] (9CI) (CA INDEX NAME)



RN 209795-59-5 CAPLUS
CN Benzoic acid, 2-chloro-3-[(ethoxyimino)methyl]-4-(methylsulfonyl)-, methyl ester (9CI) (CA INDEX NAME)

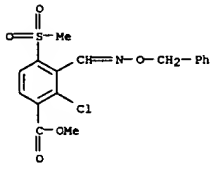


RN 209795-62-0 CAPLUS
CN Benzoic acid, 2-chloro-3-[(ethoxyimino)methyl]-4-(methylsulfonyl)- (9CI) (CA INDEX NAME)

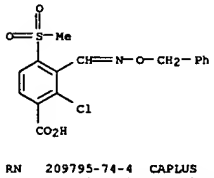


RN 209795-72-2 CAPLUS
CN Benzoic acid, 2-chloro-4-(methylsulfonyl)-3-[[(phenylmethoxy)imino]methyl]-, methyl ester (9CI) (CA INDEX NAME)

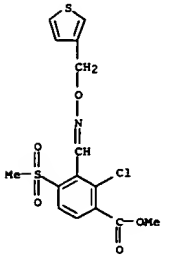




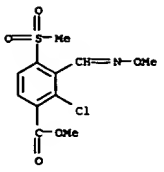
RN 209795-73-3 CAPLUS
CN Benzoic acid, 2-chloro-4-(methylsulfonyl)-3-[[(phenylmethoxy)imino]methyl]- (9CI) (CA INDEX NAME)



RN 209795-74-4 CAPLUS
CN Benzoic acid, 2-chloro-4-(methylsulfonyl)-3-[[(3-thienylmethoxy)imino]methyl]-, methyl ester (9CI) (CA INDEX NAME)



RN 209795-75-5 CAPLUS
CN Benzoic acid, 2-chloro-3-[(methoxyimino)methyl]-4-(methylsulfonyl)-, methyl ester (9CI) (CA INDEX NAME)



RN 209795-76-6 CAPLUS
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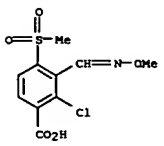
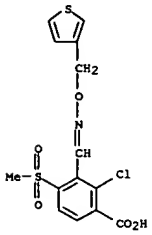
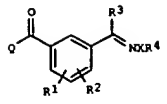


RN 209795-78-8 CAPLUS
CN Benzoic acid, 2-chloro-4-(methylsulfonyl)-3-[[(3-thienylmethoxy)imino]methyl]- (9CI) (CA INDEX NAME)







I

AB Title compds. [I; R1, R2 = H, NO2, halo, cyano, rhodano, alkyl, haloalkyl, alkoxyalkyl, alkenyl, alkynyl, OR5, OCOR6, OSO2R6, SH, S(O)nR7, SO2OR5, SO2NR5R8, NR8SO2R6, NR8COR6; R3 = H, cyano, alkyl, haloalkyl, OR7, SR7, NR7R10; R4 = H, (substituted) alkyl, cycloalkyl, alkenyl, cycloalkenyl, alkynyl, COR9, CO2R9, COSR9, CONR8R9; X = O, NR8; n = 0, 1, 2; R5 = H, alkyl, haloalkyl, alkoxyalkyl, alkenyl, alkynyl; R6 = alkyl, haloalkyl; R7 = alkyl, haloalkyl, alkoxyalkyl, alkenyl, alkynyl; R8 = H, alkyl; R9 = alkyl, alkenyl, alkynyl, Ph, PhCH2; R10 = alkyl, haloalkyl, alkenyl, alkynyl; Q = (substituted) 2-cyclohexane-1,3-dione], were prepd. as herbicides (no data). Thus, 2,4-dichloro-3-propargyloxyiminomethylbenzoic acid in MeCN was treated with dimedone and DCC followed by 12 h stirring to give a residue which was stirred 3 h with acetone cyanohydrin and Et3N in MeCN to give 2-(2,4-dichloro-3-propargyloxyiminomethylbenzoyl)-5,5-dimethyl-1,3-cyclohexanedione.

ACCESSION NUMBER: 1998:485037 CAPLUS
DOCUMENT NUMBER: 129:108900
TITLE: Preparation of substituted 2-benzoylcyclohexane-1,3-diones as herbicides.
INVENTOR(S): Hill, Regina Luise; Kardorff, Uwe; Rack, Michael; Baumann, Ernst; Von Deyn, Wolfgang; Engel, Stefan; Mayer, Guido; Otten, Martina; Rheinheimer, Joachim; Witschel, Matthias; Misslitz, Ulf; Walter, Helmut; Westphalen, Karl-Otto
PATENT ASSIGNEE(S): BASF A.-G., Germany
SOURCE: PCT Int. Appl., 74 pp.
CODEN: PIXXD2
DOCUMENT TYPE: Patent
LANGUAGE: German
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

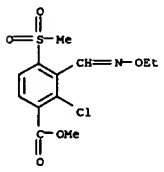
| PATENT NO. | KIND | DATE | APPLICATION NO. | DATE |
|---|---|---|---|---|
| WO 9829384 | A1 | 19980709 | WO 1997-EP7214 | 19971219 |
| W: AL, AU, BG, BR, BY, CA, CN, CZ, GE, HU, ID, IL, JP, KR, KZ, LT, LV, MX, NO, NZ, PL, RO, RU, SG, SI, SK, TR, UA, US, UZ, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM | | | | |
| RW: AT, BE, CH, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE | | | | |
| DE 19700019 | A1 | 19980709 | DE 1997-19700019 | 19970103 |
| AU 9857626 | A1 | 19980731 | AU 1998-57626 | 19971219 |
| AU 742501 | B2 | 20020103 | | |



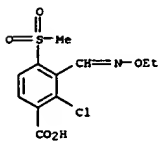
| | | | | |
|---|---|---|---|---|
| EP 958276 | A1 | 19991124 | EP 1997-953895 | 19971219 |
| EP 958276 | B1 | 20020313 | | |
| R: AT, BE, CH, DE, DK, ES, FR, GB, IT, LI, NL, PT | | | | |
| CN 1245488 | A | 20000223 | CN 1997-181600 | 19971219 |
| BR 9714258 | A | 20000418 | BR 1997-14258 | 19971219 |
| JP 2001507690 | T2 | 20010612 | JP 1998-529590 | 19971219 |
| AT 214363 | E | 20020315 | AT 1997-953895 | 19971219 |
| ZA 9800006 | A | 19990702 | ZA 1998-6 | 19980102 |

PRIORITY APPLN. INFO.: DE 1997-19700019 A 19970103
WO 1997-EP7214 W 19971219

OTHER SOURCE(S): MARPAT 129:108900
IT **209795-59-5P 209795-62-0P 209795-72-2P 209795-73-3P 209795-74-4P 209795-75-5P 209795-76-6P 209795-78-8P 209865-92-9P 209866-00-2P**
RL: AGR (Agricultural use); BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); SPN (Synthetic preparation); BIOL (Biological study); PREP (Preparation); USES (Uses)
(prepn. of substituted 2-benzoylcyclohexane-1,3-diones as herbicides)
RN 209795-59-5 CAPLUS
CN Benzoic acid, 2-chloro-3-[(ethoxyimino)methyl]-4-(methylsulfonyl)-, methyl ester (9CI) (CA INDEX NAME)

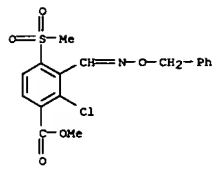


RN 209795-62-0 CAPLUS
CN Benzoic acid, 2-chloro-3-[(ethoxyimino)methyl]-4-(methylsulfonyl)- (9CI) (CA INDEX NAME)

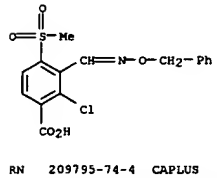


RN 209795-72-2 CAPLUS
CN Benzoic acid, 2-chloro-4-(methylsulfonyl)-3-[[(phenylmethoxy)imino]methyl]-, methyl ester (9CI) (CA INDEX NAME)

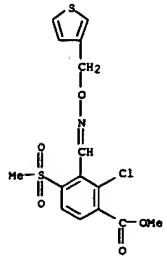




RN 209795-73-3 CAPLUS
CN Benzoic acid, 2-chloro-4-(methylsulfonyl)-3-[[(phenylmethoxy)imino]methyl]- (9CI) (CA INDEX NAME)

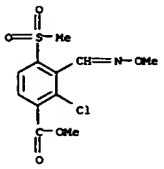


RN 209795-74-4 CAPLUS
CN Benzoic acid, 2-chloro-4-(methylsulfonyl)-3-[[(3-thienylmethoxy)imino]methyl]-, methyl ester (9CI) (CA INDEX NAME)

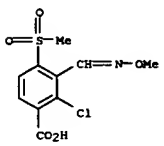


RN 209795-75-5 CAPLUS

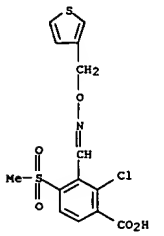
L10 ANSWER 10 OF 30 CAPLUS COPYRIGHT 2002 ACS (Continued)
CN Benzoic acid, 2-chloro-3-[(methoxyimino)methyl]-4-(methylsulfonyl)-, methyl ester (9CI) (CA INDEX NAME)



RN 209795-76-6 CAPLUS
CN Benzoic acid, 2-chloro-3-[(methoxyimino)methyl]-4-(methylsulfonyl)- (9CI) (CA INDEX NAME)

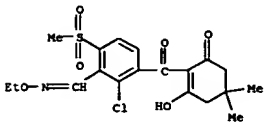


RN 209795-78-8 CAPLUS
CN Benzoic acid, 2-chloro-4-(methylsulfonyl)-3-[[(3-thienylmethoxy)imino]methyl]- (9CI) (CA INDEX NAME)

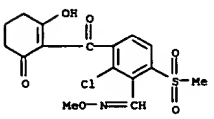


RN 209865-92-9 CAPLUS
CN Benzaldehyde, 2-chloro-3-[(2-hydroxy-4,4-dimethyl-6-oxo-1-cyclohexen-1-

L10 ANSWER 10 OF 30 CAPLUS COPYRIGHT 2002 ACS (Continued)
yl)carbonyl]-6-(methylsulfonyl)-, 1-(O-ethyloxime) (9CI) (CA INDEX NAME)



RN 209866-00-2 CAPLUS
CN Benzaldehyde, 2-chloro-3-[(2-hydroxy-6-oxo-1-cyclohexen-1-yl)carbonyl]-6-(methylsulfonyl)-, 1-(O-methyloxime) (9CI) (CA INDEX NAME)



L10 ANSWER 11 OF 30 CAPLUS COPYRIGHT 2002 ACS
GI For diagram(s), see printed CA Issue.
AB Compds. of general formula [I; ring Y = Q - Q3; A = alkylene optionally interrupted with phenylene or hetero atoms and optionally contg. oxo and/or unsatd. bonds; B = H, alkyl, aralkyl, acyl; R = CO2R1, CH2OR2, CONR3R4; R1, R2 = H, alkyl; R3, R4 = H, alkyl, OH, alkylsulfonyl; X1 = single bond, phenylene, naphthylene, thiophenediyl, indolediyl, oxazolediyl; X2 = single bond, N:N, N:CH, CH:N, CH:NN, CH:NO, C:NNHCSNH, C:NNHCONH, CH:CH, CH(OH), CCl:CCl, (CH2)n, C.tplbond.C, NR5, NR5CO, NR5SO2, NR5CONR5, CONR5, SO2NR5, O, S, SO, SO2, CO, oxadiazolediyl, thiadiazolediyl, tetrazolediyl; wherein R5 = H, alkyl; X3 = alkyl, alkenyl, alkynyl, aryl, aralkyl, heterocyclyl, cycloalkyl, cycloalkenyl, thiazolylidene, etc.; Z = SO2, CO; m = 0,1; wherein if the substituents are in the form of rings, they may be optionally substituted] or salts thereof or hydrates thereof are prepd. These compds. are useful as a PGD2 antagonists and thus usable in, for example, a remedy for systemic mastocytosis or systemic mast cell activation disorders, a drug for bronchoconstriction, an antiasthmatic, a drug for allergic rhinitis agent, a drug for allergic conjunctivitis, a drug for urticaria, a remedy for ischemia reperfusion disorders or an antiinflammatory agent. They are particularly useful in the treatment of nasal occlusion. Thus, a bicyclo[2.2.1]heptane deriv. (II; R = Me, R7 = H) was condensed with 2-chlorosulfonyldibenzofuran in the presence of Et3N in CH2Cl2 to give, after sapon., II .Na (R = H, R7 = Q3). I in vitro inhibited the binding of [3H]PGD2 to PGD2 receptor prepn. from human blood platelet fraction with IC50 of 0.003-8.6 .mu.M. A tablet and granule formulation contg. the title compd. (III.1/2Ca) were described.
ACCESSION NUMBER: 1997:145245 CAPLUS
DOCUMENT NUMBER: 126:157408
TITLE: Preparation of N-(arylcarbonyl or heterocyclylcarbonyl)amino(carboxyalkenyl)bicycloheptane derivatives or analogs thereof and prostaglandin D2 (PGD2) antagonists containing the same
INVENTOR(S): Ohtani, Mitsuaki; Arimura, Akinori; Tsuri, Tatsuo; Kishino, Junji; Honma, Tsunetoshi
PATENT ASSIGNEE(S): Shionogi and Co., Ltd., Japan; Ohtani, Mitsuaki; Arimura, Akinori; Tsuri, Tatsuo; Kishino, Junji; Honma, Tsunetoshi
SOURCE: PCT Int. Appl., 242 pp.
CODEN: PIXXD2
DOCUMENT TYPE: Patent
LANGUAGE: Japanese
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

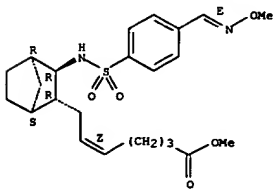
| PATENT NO. | KIND | DATE | APPLICATION NO. | DATE |
|---|---|---|---|---|
| WO 9700853 | A1 | 19970109 | WO 1996-JP1685 | 19960619 |
| W: AL, AU, BB, BG, BR, CA, CN, CZ, EE, GE, HU, IL, IS, JP, KR, LK, LR, LT, LV, MG, MK, MN, MX, NO, NZ, PL, RO, SG, SI, SK, TR, TT, UA, US, UZ, VN, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM | | | | |
| RW: KE, LS, MW, SD, SZ, UG, AT, BE, CH, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA, GN, ML, MR, NE, SN, TD, TG | | | | |
| CA 2225250 | AA | 19970109 | CA 1996-2225250 | 19960619 |
| AU 9661370 | A1 | 19970122 | AU 1996-61370 | 19960619 |

L10 ANSWER 11 OF 30 CAPLUS COPYRIGHT 2002 ACS (Continued)

| | | | | |
|---|---|---|---|---|
| AU 714312 | B2 | 19991223 | | |
| EP 837052 | A1 | 19980422 | EP 1996-918841 | 19960619 |
| R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI | | | | |
| CN 1193315 | A | 19980916 | CN 1996-196326 | 19960619 |
| BR 9608498 | A | 19990706 | BR 1996-8498 | 19960619 |
| CZ 285870 | B6 | 19991117 | CZ 1997-4013 | 19960619 |
| JP 3195361 | B2 | 20010806 | JP 1997-503724 | 19960619 |
| JP 2001288160 | A2 | 20011016 | JP 2001-73708 | 19960619 |
| NO 9705994 | A | 19980223 | NO 1997-5994 | 19971219 |
| US 6172113 | B1 | 20010109 | US 1998-973983 | 19980422 |
| US 6384075 | B1 | 20020507 | US 2000-506608 | 20000218 |

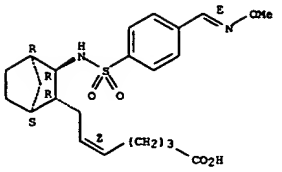
PRIORITY APPLN. INFO.: JP 1995-154575 A 19950621
JP 1997-503724 A3 19960619
WO 1996-JP1685 W 19960619
US 1998-973983 A3 19980422
OTHER SOURCE(S): MARPAT 126:157408
IT **186529-44-2P 186529-45-3P 186529-46-4P 186529-47-5P**
RL: BAC (Biological activity or effector, except adverse); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)
(prepn. of amino(carboxyalkenyl)bicycloheptane derivs. as prostaglandin D2 antagonists for disease therapy)
RN 186529-44-2 CAPLUS
CN 5-Heptenoic acid, 7-[3-[[[4-[(methoxyimino)methyl]phenyl]sulfonyl]amino]bicyclo[2.2.1]hept-2-yl]-, methyl ester, [1S-[1.alpha.,2.alpha.(Z),3.beta.(E),4.alpha.]]- (9CI) (CA INDEX NAME)

Absolute stereochemistry.
Double bond geometry as shown.



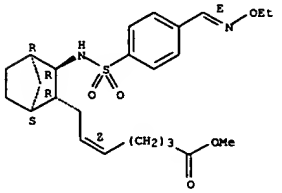
RN 186529-45-3 CAPLUS
CN 5-Heptenoic acid, 7-[3-[[[4-[(methoxyimino)methyl]phenyl]sulfonyl]amino]bicyclo[2.2.1]hept-2-yl]-, [1S-[1.alpha.,2.alpha.(Z),3.beta.(E),4.alpha.]]- (9CI) (CA INDEX NAME)

Absolute stereochemistry.
Double bond geometry as shown.



RN 186529-46-4 CAPLUS
CN 5-Heptenoic acid,
7-[3-[[[4-[(ethoxyimino)methyl]phenyl]sulfonyl]amino]bic
yclo[2.2.1]hept-2-yl]-, methyl ester,
[1S-[1.alpha.,2.alpha.(Z),3.beta.(E)
,4.alpha.]]- (9CI) (CA INDEX NAME)

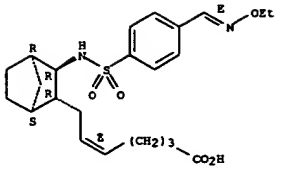
Absolute stereochemistry.
Double bond geometry as shown.



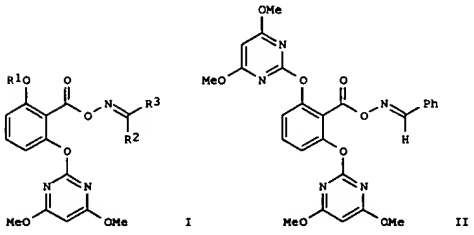
RN 186529-47-5 CAPLUS
CN 5-Heptenoic acid,
7-[3-[[[4-[(ethoxyimino)methyl]phenyl]sulfonyl]amino]bic
yclo[2.2.1]hept-2-yl]-, [1S-[1.alpha.,2.alpha.(Z),3.beta.(E),4.alpha.]]-
(9CI) (CA INDEX NAME)

Absolute stereochemistry.
Double bond geometry as shown.









AB The invention relates to novel herbicidal pyrimidine derivs. I [R1 = 4,6-dimethoxy-2-pyrimidinyl, C1-4 alkyl, C2-4 alkenyl, acyl, alkylsulfonyl or heteroarylmethyl; R2 = H, halo, cyano, NO2, C1-8 alkyl, C1-8 alkoxy, C1-8 alkythio, C1-8 alkoxycarbonyl, C2-4 alkenyloxycarbonyl, (hetero)arylmethoxycarbonyl, C1-4 alkylaminocarbonyl, aryl-C1-4 alkylaminocarbonyl, heteroarylmethylaminocarbonyl, aryl, C2-8 alkenyl, C3-6 cycloalkyl, PhCH2, aryloxy, arylthio, or C1-8 alkylcarbonyl; R3 = (un)substituted Ph, COR4; R4 = H, C1-4 alkyl, C2-4 alkenyl, C3-6 cycloalkyl, PhCH2, aryl, C1-4 alkoxy, C2-4 alkenyloxy, C3-6 cycloalkoxy, PhCH2O, aryloxy, C1-4 alkythio, C2-4 alkenylthio, C3-6 cycloalkylthio, PhCH2S, arythio, amino which can be substituted with C1-C4 alkyl or aryl or arylmethyl], as well as a process for their prepn., and their herbicidal compns. I have excellent activity against both narrow- and broadleaf weeds, with increased safety for crops (esp. directly sown rice). For example, 2,6-bis(4,6-dimethoxypyrimidin-2-yl)oxybenzoic acid was treated with 2,2'-dipyridyl disulfide and PPh3 in PhMe to give 90% of the corresponding 2-pyridyl thioester, which reacted with benzaldehyde oxime in CH2Cl2 in the presence of CuBr2 to give 85% title compd. II. At 63 g/ha postemergence under paddy field conditions, II gave complete control of 7 weeds with no damage to direct-sown rice seedlings. Characterizing phys. and herbicidal data for 73 compds. are given.

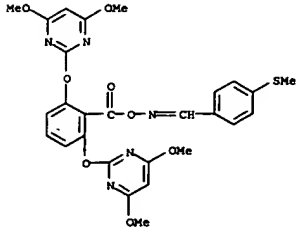
ACCESSION NUMBER: 1995:810566 CAPLUS
DOCUMENT NUMBER: 123:228208
TITLE: Pyrimidine derivatives, process for their preparation, and their use as herbicides.
INVENTOR(S): Hur, Chang Uk; Cho, Jin Ho; Hong, Su Myeong; Kim, Hong Woo; Lim, Young Hee; Rim, Jae Suk; Kim, Jeong Su; Chae, Sang Heon
PATENT ASSIGNEE(S): Lucky Ltd., S. Korea
SOURCE: Eur. Pat. Appl., 54 pp.
CODEN: EPXXDW
DOCUMENT TYPE: Patent
LANGUAGE: English



FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

| PATENT NO. | KIND | DATE | APPLICATION NO. | DATE |
|---|---|---|---|---|
| EP 658549 | A1 | 19950621 | EP 1994-117857 | 19941111 |
| EP 658549 | B1 | 20010523 | | |
| R: CH, DE, FR, GB, LI, NL | | | | |
| KR 9701480 | B1 | 19970206 | KR 1993-24099 | 19931113 |
| KR 120271 | B1 | 19971104 | KR 1993-30055 | 19931227 |
| KR 120270 | B1 | 19971104 | KR 1993-31016 | 19931229 |
| US 5521146 | A | 19960528 | US 1994-339249 | 19941110 |
| BR 9404436 | A | 19951017 | BR 1994-4436 | 19941111 |
| CN 1111623 | A | 19951115 | CN 1994-117926 | 19941111 |
| CN 1043885 | B | 19990630 | | |
| AU 9478812 | A1 | 19950608 | AU 1994-78812 | 19941114 |
| AU 673629 | B2 | 19961114 | | |
| JP 07196629 | A2 | 19950801 | JP 1994-279506 | 19941114 |
| JP 2517215 | B2 | 19960724 | | |

PRIORITY APPLN. INFO.: KR 1993-24099 A 19931113
KR 1993-30055 A 19931227
KR 1993-31016 A 19931229
OTHER SOURCE(S): CASREACT 123:228208; MARPAT 123:228208
IT 168088-53-7P
RL: AGR (Agricultural use); BAC (Biological activity or effector, except adverse); SPN (Synthetic preparation); BIOL (Biological study); PREP (Preparation); USES (Uses)
(prepn. of pyrimidine derivs. as herbicides)
RN 168088-53-7 CAPLUS
CN Benzaldehyde, 4-(methylthio)-, O-[2,6-bis[(4,6-dimethoxy-2-pyrimidinyl)oxy]benzoyl]oxime (9CI) (CA INDEX NAME)



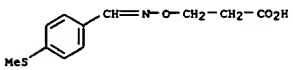
L10 ANSWER 13 OF 30 CAPLUS COPYRIGHT 2002 ACS

AB This paper reports the platelet anti-aggregating activity induced by arachidonic acid (AA) and by adenosine-diphosphate (ADP), together with the anti-inflammatory activity evaluated by the carrageenan-induced rat paw edema method, of a series of .beta.-aminoxypropionic acids which were projected and synthesized as analogs of non-steroidal anti-inflammatory drugs with an arylacetic structure B, in which the arom. group is substituted by a methyleneaminoxymethyl moiety. Some of the .beta.-aminoxypropionic acids were evaluated for their capacity to inhibit the cyclooxygenase enzyme by measuring the malondialdehyde (MDA) produced by incubation of sodium arachidonate with platelet-rich plasma (PRP).

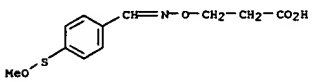
ACCESSION NUMBER: 1995:418699 CAPLUS
DOCUMENT NUMBER: 122:230145
TITLE: Synthesis, platelet anti-aggregating activity and anti-inflammatory activity of a series of .beta.-aminoxypropionic acids
AUTHOR(S): Macchia, Marco; Orlandini, Elisabetta; Rossello, Armando; Bertini, Simone; Soldani, Giulio; Baldacci, Massimo; Gervasi, Gianbattista
CORPORATE SOURCE: Dip. Sci. Farm., Univ. Pisa, Pisa, 56126, Italy
SOURCE: Farmaco (1994), 49(12), 767-73
CODEN: FRMCE8
DOCUMENT TYPE: Journal
LANGUAGE: English

IT **162287-71-0P 162287-72-1P**
RL: BAC (Biological activity or effector, except adverse); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)
(prepn. and platelet anti-aggregating activity and anti-inflammatory activity of a series of .beta.-aminoxypropionic acids)

RN 162287-71-0 CAPLUS
CN Propanoic acid, 3-[[[[4-(methylthio)phenyl]methylene]amino]oxy]- (9CI) (CA INDEX NAME)



RN 162287-72-1 CAPLUS
CN Propanoic acid, 3-[[[[4-(methoxythio)phenyl]methylene]amino]oxy]- (9CI) (CA INDEX NAME)



L10 ANSWER 14 OF 30 CAPLUS COPYRIGHT 2002 ACS

AB R5ON:CR4Z1AXZ2C(OR1)R2R3 [A = bond, alkylene; R1 = alk(en)yl; R2R3 = atoms to complete a heterocyclic ring; R4 = H, alkyl, Ph, etc.; R5 = H, alk(en)yl, alkanoyl, CONH2, etc.; X = O, SOO-2; Z1 = phenylene, heteroarylene, etc.; Z2 = phenylene, pyridinediyl, thiophenediyl, etc.] were prepd. Thus, 4-(2-methyl-1,3-dioxolan-2-yl)benzenethiol (prepn. in 4 steps from 4-BrC6H4COMe given) was condensed with (2S,4R)-4-(3,5-difluorophenyl)-4-methoxy-2-methyltetrahydropyran and the product converted in 2 steps to title compd. (2S,4R)-I which had ID50 of .apprx.0.05mg/kg orally against zymosan-induced LTB4 prodn. in rat subcutaneous air pouch.

ACCESSION NUMBER: 1995:70 CAPLUS
DOCUMENT NUMBER: 122:187392
TITLE: Preparation of [heterocyclylarylthio]aryl ketoximes and analogs as 5-lipoxygenase inhibitors
INVENTOR(S): Bird, Thomas Geoffrey Colerick; Ple, Patrick
PATENT ASSIGNEE(S): Zeneca Ltd., UK; Zeneca-Pharma
SOURCE: Eur. Pat. Appl., 85 pp.
CODEN: EPXXDW
DOCUMENT TYPE: Patent
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

| PATENT NO. | KIND | DATE | APPLICATION NO. | DATE |
|---|---|---|---|---|
| EP 555068 | A1 | 19930811 | EP 1993-300782 | 19930203 |
| EP 555068 | B1 | 19960410 | | |
| R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IE, IT, LI, LU, MC, NL, PT, SE | | | | |
| ZA 9300504 | A | 19930809 | ZA 1993-504 | 19930122 |
| AU 9331972 | A1 | 19930812 | AU 1993-31972 | 19930122 |
| AU 658964 | B2 | 19950504 | | |
| HU 63840 | A2 | 19931028 | HU 1993-272 | 19930203 |
| AT 136546 | E | 19960415 | AT 1993-300782 | 19930203 |
| ES 2086878 | T3 | 19960701 | ES 1993-300782 | 19930203 |
| CA 2088864 | AA | 19930808 | CA 1993-2088864 | 19930205 |
| NO 9300411 | A | 19930809 | NO 1993-411 | 19930205 |
| JP 05286957 | A2 | 19931102 | JP 1993-18574 | 19930205 |
| US 5332757 | A | 19940726 | US 1993-14564 | 19930208 |
| US 5482966 | A | 19960109 | US 1994-240464 | 19940613 |

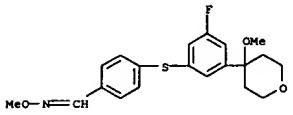
PRIORITY APPLN. INFO.: EP 1992-400318 19920207
EP 1992-402764 19921009
US 1993-14564 19930208

OTHER SOURCE(S): MARPAT 122:187392

IT **158346-55-5P**
RL: BAC (Biological activity or effector, except adverse); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)
(prepn. of [(heterocyclyl)arylthio]aryl ketoximes and analogs as 5-lipoxygenase inhibitors)

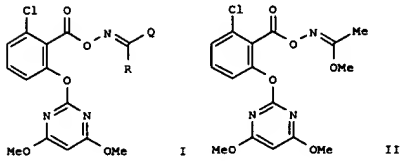
RN 158346-55-5 CAPLUS
CN Benzaldehyde, 4-[[3-fluoro-5-(tetrahydro-4-methoxy-2H-pyran-4-yl)phenyl]thio]-, O-methyloxime (9CI) (CA INDEX NAME)

L10 ANSWER 14 OF 30 CAPLUS COPYRIGHT 2002 ACS (Continued)



L10 ANSWER 15 OF 30 CAPLUS COPYRIGHT 2002 ACS

GI



AB New 6-chloro-2-[(4,6-dimethoxy-2-pyrimidinyl)oxy]benzoates [(2-[[(alkyleneamino)oxy]carbonyl]-1-chloro-3-phenoxy]pyrimidines] I (R = H, halo, cyano, etc.; Q = alkyl, alkenyl, cycloalkyl, etc.) were disclosed. I were claimed as herbicides. An example compd. 2-[1-chloro-[[[(1-methoxyethylidene)amino]oxy]carbonyl]phenoxy]-4,6-dimethoxypyrimidine (II) was prepd.

ACCESSION NUMBER: 1994:605344 CAPLUS
DOCUMENT NUMBER: 121:205344
TITLE: Novel 6-chloro-2-(4,6-dimethoxypyrimidin-2-yl) oxybenzoic acid ester derivatives, processes for their production and their application as herbicides.
INVENTOR(S): Hur, Chang Uk; Cho, Jin Ho; Lee, Ho Seong; Yoo, Sang Ku; Hong, Su Myeong; Kim, Hong Woo; Rim, Jae Suk; Bae, Yeong Tae; Chae, Sand Heon; et al.
PATENT ASSIGNEE(S): Lucky Ltd., S. Korea
SOURCE: Eur. Pat. Appl., 82 pp.
CODEN: EPXXDW
DOCUMENT TYPE: Patent
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

| PATENT NO. | KIND | DATE | APPLICATION NO. | DATE |
|---|---|---|---|---|
| EP 608862 | A1 | 19940803 | EP 1994-101132 | 19940126 |
| R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IE, IT, LI, LU, MC, NL, PT, SE | | | | |
| KR 9603323 | B1 | 19960308 | KR 1993-1017 | 19930127 |
| KR 9612180 | B1 | 19960916 | KR 1993-10097 | 19930604 |
| KR 9612179 | B1 | 19960916 | KR 1993-10098 | 19930604 |
| KR 9612181 | B1 | 19960916 | KR 1993-10099 | 19930604 |
| KR 9612194 | B1 | 19960916 | KR 1993-10100 | 19930604 |
| KR 9612195 | B1 | 19960916 | KR 1993-10101 | 19930604 |
| CN 1101345 | A | 19950412 | CN 1994-102665 | 19940126 |
| US 5494888 | A | 19960227 | US 1994-186589 | 19940126 |
| BR 9400365 | A | 19940816 | BR 1994-365 | 19940127 |
| JP 07149735 | A2 | 19950613 | JP 1994-7824 | 19940127 |
| JP 2543665 | B2 | 19961016 | | |

PRIORITY APPLN. INFO.: KR 1993-1017 A 19930127
KR 1993-10097 A 19930604
KR 1993-10098 A 19930604

L10 ANSWER 15 OF 30 CAPLUS COPYRIGHT 2002 ACS (Continued)

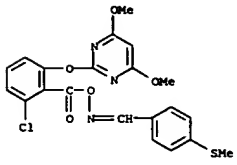
| | | | |
|---|---|---|---|
| | KR 1993-10099 | A | 19930604 |
| | KR 1993-10100 | A | 19930604 |
| | KR 1993-10101 | A | 19930604 |

OTHER SOURCE(S): MARPAT 121:205344

IT 157990-23-3P
RL: AGR (Agricultural use); BAC (Biological activity or effector, except adverse); SPN (Synthetic preparation); BIOL (Biological study); PREP (Preparation); USES (Uses)
(prepn. of, as herbicide)

RN 157990-23-3 CAPLUS

CN Benzaldehyde, 4-(methylthio)-, O-[2-chloro-6-[(4,6-dimethoxy-2-pyrimidinyl)oxy]benzoyl]oxime (9CI) (CA INDEX NAME)



L10 ANSWER 16 OF 30 CAPLUS COPYRIGHT 2002 ACS

AB Numerous title herbicides R1CH:NOCHR2C(X)NH(CH2)nR3 (R1 = (un)substituted Ph, 2-thienyl, 2-furyl; R2 = Me, Et; R3 = (un)substituted Ph, 2-thienyl; X = O, S; n = 0, 1) were prepd. Thus, 3-ClC6H4CH:NOH upon treatment with EtCHBrCONHCH2Ph and K2CO3 in acetone afforded I (R1 = 3-ClC6H4, R2 = Et, R3 = Ph, X = O, n = 1).

| | |
|---|---|
| ACCESSION NUMBER: | 1991:558704 CAPLUS |
| DOCUMENT NUMBER: | 115:158704 |
| TITLE: | Benzylideneaminoxyalkanoic acid (thio)amide derivative, process for preparing the same and herbicide |
| INVENTOR(S): | Harada, Katsumasa; Akiyoshi, Yuji; Abe, Takaaki; Shiraishi, Hiroshi; Yamamoto, Kaoru; Hayama, Takashi; Shiraishi, Ikuo |
| PATENT ASSIGNEE(S): | Ube Industries, Ltd., Japan |
| SOURCE: | Eur. Pat. Appl., 38 pp.<br>CODEN: EPXXDW |
| DOCUMENT TYPE: | Patent |
| LANGUAGE: | English |
| FAMILY ACC. NUM. COUNT: | 1 |

PATENT INFORMATION:

| PATENT NO. | KIND | DATE | APPLICATION NO. | DATE |
|---|---|---|---|---|
| EP 427445 | A1 | 19910515 | EP 1990-311904 | 19901030 |
| EP 427445 | B1 | 19940608 | | |
| R: DE, ES, FR, GB, IT | | | | |
| JP 03151353 | A2 | 19910627 | JP 1989-289950 | 19891109 |
| JP 2745737 | B2 | 19980428 | | |
| JP 03261760 | A2 | 19911121 | JP 1990-56662 | 19900309 |
| ES 2055342 | T3 | 19940816 | ES 1990-311904 | 19901030 |

PRIORITY APPLN. INFO.: JP 1989-289950 19891109
JP 1990-56662 19900309

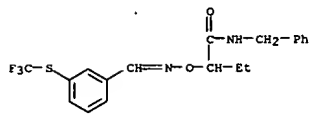
OTHER SOURCE(S): MARPAT 115:158704

IT 134814-15-6P 134814-16-7P 134814-17-8P
134814-18-9P 134814-19-0P 134814-20-3P
134814-21-4P 134814-22-5P 134814-23-6P
134814-24-7P 134814-25-8P 134814-26-9P
134814-27-0P 134814-28-1P 134814-29-2P
134814-30-5P 134814-31-6P 134814-32-7P
134814-33-8P 134814-34-9P 134814-35-0P
134814-36-1P
RL: AGR (Agricultural use); BAC (Biological activity or effector, except adverse); SPN (Synthetic preparation); BIOL (Biological study); PREP (Preparation); USES (Uses)
(prepn. of, as herbicide)

RN 134814-15-6 CAPLUS

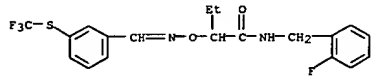
CN Butanamide, N-(phenylmethyl)-2-[[[[3-[(trifluoromethyl)thio]phenyl]methylene]amino]oxy]- (9CI) (CA INDEX NAME)

L10 ANSWER 16 OF 30 CAPLUS COPYRIGHT 2002 ACS (Continued)



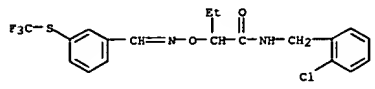
RN 134814-16-7 CAPLUS

CN Butanamide, N-[(2-fluorophenyl)methyl]-2-[[[[3-[(trifluoromethyl)thio]phenyl]methylene]amino]oxy]- (9CI) (CA INDEX NAME)



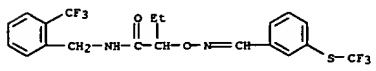
RN 134814-17-8 CAPLUS

CN Butanamide, N-[(2-chlorophenyl)methyl]-2-[[[[3-[(trifluoromethyl)thio]phenyl]methylene]amino]oxy]- (9CI) (CA INDEX NAME)



RN 134814-18-9 CAPLUS

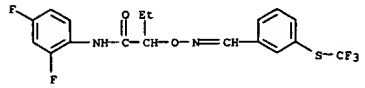
CN Butanamide, N-[[2-(trifluoromethyl)phenyl]methyl]-2-[[[[3-[(trifluoromethyl)thio]phenyl]methylene]amino]oxy]- (9CI) (CA INDEX NAME)



RN 134814-19-0 CAPLUS

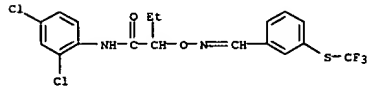
CN Butanamide, N-(2,4-difluorophenyl)-2-[[[[3-[(trifluoromethyl)thio]phenyl]methylene]amino]oxy]- (9CI) (CA INDEX NAME)

L10 ANSWER 16 OF 30 CAPLUS COPYRIGHT 2002 ACS (Continued)



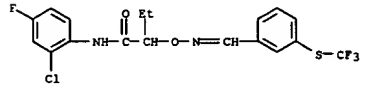
RN 134814-20-3 CAPLUS

CN Butanamide, N-(2,4-dichlorophenyl)-2-[[[[3-[(trifluoromethyl)thio]phenyl]methylene]amino]oxy]- (9CI) (CA INDEX NAME)



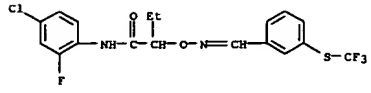
RN 134814-21-4 CAPLUS

CN Butanamide, N-(2-chloro-4-fluorophenyl)-2-[[[[3-[(trifluoromethyl)thio]phenyl]methylene]amino]oxy]- (9CI) (CA INDEX NAME)



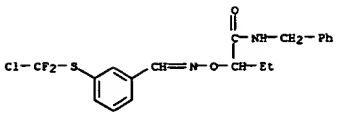
RN 134814-22-5 CAPLUS

CN Butanamide, N-(4-chloro-2-fluorophenyl)-2-[[[[3-[(trifluoromethyl)thio]phenyl]methylene]amino]oxy]- (9CI) (CA INDEX NAME)

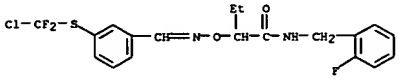


RN 134814-23-6 CAPLUS

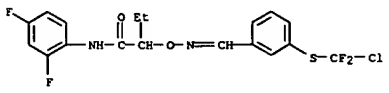
CN Butanamide, 2-[[[[3-[(chlorodifluoromethyl)thio]phenyl]methylene]amino]oxy]-N-(phenylmethyl)- (9CI) (CA INDEX NAME)



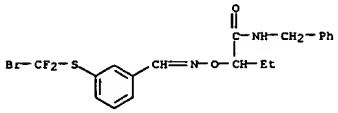
RN 134814-24-7 CAPLUS
CN Butanamide,
2-[[[[3-[(chlorodifluoromethyl)thio]phenyl]methylene]amino]oxy
]-N-[(2-fluorophenyl)methyl]- (9CI) (CA INDEX NAME)



RN 134814-25-8 CAPLUS
CN Butanamide,
2-[[[[3-[(chlorodifluoromethyl)thio]phenyl]methylene]amino]oxy
]-N-(2,4-difluorophenyl)- (9CI) (CA INDEX NAME)

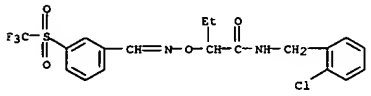


RN 134814-26-9 CAPLUS
CN Butanamide,
2-[[[[3-[(bromodifluoromethyl)thio]phenyl]methylene]amino]oxy]-
N-(phenylmethyl)- (9CI) (CA INDEX NAME)

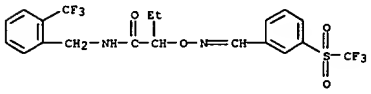


RN 134814-27-0 CAPLUS
CN Butanamide,
2-[[[[3-[(bromodifluoromethyl)thio]phenyl]methylene]amino]oxy]-
N-[(2-fluorophenyl)methyl]- (9CI) (CA INDEX NAME)

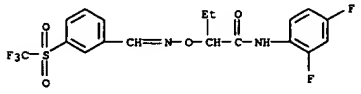




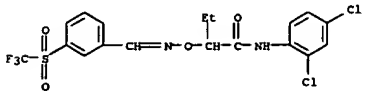
RN 134814-32-7 CAPLUS
CN Butanamide, N-[[2-(trifluoromethyl)phenyl]methyl]-2-[[[[3-
[(trifluoromethyl)sulfonyl]phenyl]methylene]amino]oxy]- (9CI) (CA INDEX
NAME)



RN 134814-33-8 CAPLUS
CN Butanamide,
N-(2,4-difluorophenyl)-2-[[[[3-[(trifluoromethyl)sulfonyl]phen
yl]methylene]amino]oxy]- (9CI) (CA INDEX NAME)

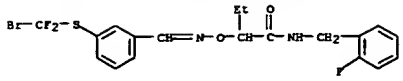


RN 134814-34-9 CAPLUS
CN Butanamide,
N-(2,4-dichlorophenyl)-2-[[[[3-[(trifluoromethyl)sulfonyl]phen
yl]methylene]amino]oxy]- (9CI) (CA INDEX NAME)

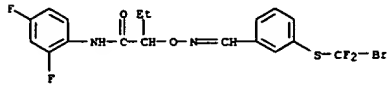


RN 134814-35-0 CAPLUS
CN Butanamide, N-(2-chloro-4-fluorophenyl)-2-[[[[3-
[(trifluoromethyl)sulfonyl]phenyl]methylene]amino]oxy]- (9CI) (CA INDEX
NAME)

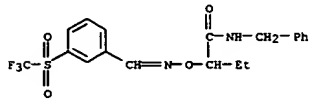




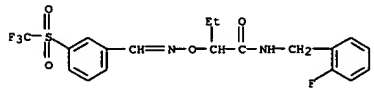
RN 134814-28-1 CAPLUS
CN Butanamide,
2-[[[[3-[(bromodifluoromethyl)thio]phenyl]methylene]amino]oxy]-
N-(2,4-difluorophenyl)- (9CI) (CA INDEX NAME)



RN 134814-29-2 CAPLUS
CN Butanamide,
N-(phenylmethyl)-2-[[[[3-[(trifluoromethyl)sulfonyl]phenyl]met
hylene]amino]oxy]- (9CI) (CA INDEX NAME)

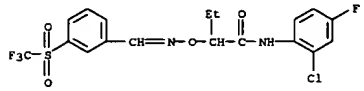


RN 134814-30-5 CAPLUS
CN Butanamide, N-[(2-fluorophenyl)methyl]-2-[[[[3-
[(trifluoromethyl)sulfonyl]phenyl]methylene]amino]oxy]- (9CI) (CA INDEX
NAME)

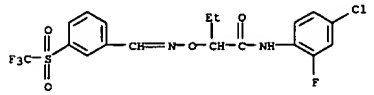


RN 134814-31-6 CAPLUS
CN Butanamide, N-[(2-chlorophenyl)methyl]-2-[[[[3-
[(trifluoromethyl)sulfonyl]phenyl]methylene]amino]oxy]- (9CI) (CA INDEX
NAME)

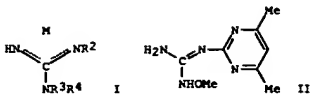




RN 134814-36-1 CAPLUS
CN Butanamide, N-(4-chloro-2-fluorophenyl)-2-[[[[3-
[(trifluoromethyl)sulfonyl]phenyl]methylene]amino]oxy]- (9CI) (CA INDEX
NAME)



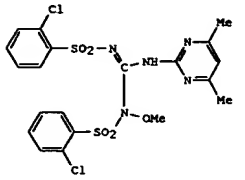
L10 ANSWER 17 OF 30 CAPLUS COPYRIGHT 2002 ACS
GI



I



II



III

AB The title compds. I [R2 = (substituted) pyrimidinyl; R3 = H, C1-4 alkyl; R4 = OR8; R8 = (substituted) C1-6 alkyl, C3-6 cycloalkyl, (substituted) PhCH2; or R4 = NR9R10; R9 = H, C1-4 alkyl; R10 = (substituted) C1-4 alkyl, C3-6 alkenyl, C3-6 cycloalkyl, etc.; M = undefined] were prepd. Reaction of 2-cyanoamino-4,6-dimethylpyrimidine with MeONH2.HCl gave 55% pyrimidine II. Pyrimidine III is said to show an excellent inhibitory activity against the growth of soybeans.

ACCESSION NUMBER: 1990:497620 CAPLUS
DOCUMENT NUMBER: 113:97620
TITLE: Guanidinopyrimidines as herbicides and plant growth regulators and their preparation
INVENTOR(S): Moriya, Koichi; Pfister, Theodor; Riebel, Hans Jochem; Eue, Ludwig; Schmidt, Robert R.; Luerrsen, Klaus
PATENT ASSIGNEE(S): Bayer A.-G., Fed. Rep. Ger.
SOURCE: U.S., 84 pp. Cont.-in-part of U.S. 4,721,785. CODEN: USXXAM
DOCUMENT TYPE: Patent
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 8
PATENT INFORMATION:

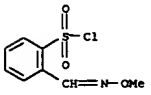
| PATENT NO. | KIND | DATE | APPLICATION NO. | DATE |
|---|---|---|---|---|
| US 4880932 | A | 19891114 | US 1987-44083 | 19870429 |
| DE 3334455 | A1 | 19840906 | DE 1983-3334455 | 19830923 |
| US 4602938 | A | 19860729 | US 1984-578345 | 19840209 |
| US 4721785 | A | 19880126 | US 1986-853822 | 19860418 |
| US 4844730 | A | 19890704 | US 1988-224973 | 19880727 |

PRIORITY APPLN. INFO.: DE 1983-3307679 19830304

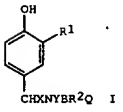
L10 ANSWER 17 OF 30 CAPLUS COPYRIGHT 2002 ACS (Continued)

| | | |
|---|---|---|
| | DE 1983-3334455 | 19830923 |
| | US 1984-578345 | 19840209 |
| | US 1986-853822 | 19860418 |
| | US 1987-44083 | 19870429 |

OTHER SOURCE(S): MARPAT 113:97620
IT 94808-27-2P
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation) (prepn. and reaction of, in prepn. of herbicide and plant growth regulator)
RN 94808-27-2 CAPLUS
CN Benzenesulfonyl chloride, 2-[(methoxyimino)methyl]- (9CI) (CA INDEX NAME)



L10 ANSWER 18 OF 30 CAPLUS COPYRIGHT 2002 ACS
GI



I

AB The title compds. [I; R1 = alkyl, (alkyl)amino, halo, CF3, NO2, etc., R2 = C1-23 alkylene, alkenylene, alkynylene; B = CO, SO2, CONH, etc.; Q = alkyl, (alkyl)amino, halo, CF3, etc.; X, Y = H, alkyl], useful as antiinflammatory and analgesic agents, are prepd. Addn. of p-HOC6H4CN with EtOCH:CH2 in CHCl3 in the presence of HCl gave 72.7% p-EtOCHMeOC6H4CN which was reduced with LiAlH4 in THF to give 97.9% p-EtOCHMeOC6H4CH2NH2 (II). A soln. of nonyl chloride in THF was added to a stirred soln. of II and Et3N in THF with stirring, evapd., the residue hydrolyzed with HCl in CH2Cl2 to give 73.4% I (R1 = X = Y = H, B = CO, R2Q = octyl), which was chlorinated with Cl in CHCl3 to give 51.3% I (R1 = Cl, X = Y = H, B = CO, R2Q = octyl), which showed ED50 of 3.4 mg/kg .+-. 0.8215 in mice in antiwrithing test.

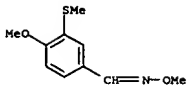
ACCESSION NUMBER: 1989:614238 CAPLUS
DOCUMENT NUMBER: 111:214238
TITLE: Preparation of N-benzylcarboxamide derivatives having antiinflammatory and analgesic activity
INVENTOR(S): Johnson, Graham; Rafferty, Michael Francis
PATENT ASSIGNEE(S): Warner-Lambert Co., USA
SOURCE: PCT Int. Appl., 35 pp. CODEN: PIXXD2
DOCUMENT TYPE: Patent
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

| PATENT NO. | KIND | DATE | APPLICATION NO. | DATE |
|---|---|---|---|---|
| WO 8904297 | A1 | 19890518 | WO 1987-US2886 | 19871104 |
| W: AT, AU, BB, BG, BR, CH, DE, DK, FI, GB, HU, JP, KP, KR, LK, LU, MC, MG, MW, NL, NO, RO, SD, SE, SU, US | | | | |
| RW: AT, BE, CH, DE, FR, GB, IT, LU, NL, SE | | | | |
| AU 8782702 | A1 | 19890601 | AU 1987-82702 | 19871104 |
| US 4980366 | A | 19901225 | US 1989-324966 | 19890316 |

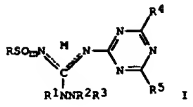
PRIORITY APPLN. INFO.: US 1986-898160 19860819
WO 1987-US2886 19871104

OTHER SOURCE(S): CASREACT 111:214238; MARPAT 111:214238
IT 123652-99-3P
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation) (prepn. and redn. of)
RN 123652-99-3 CAPLUS
CN Benzaldehyde, 4-methoxy-3-(methylthio)-, O-methyloxime (9CI) (CA INDEX NAME)

L10 ANSWER 18 OF 30 CAPLUS COPYRIGHT 2002 ACS (Continued)



L10 ANSWER 19 OF 30 CAPLUS COPYRIGHT 2002 ACS
GI



I

AB The title compds. I [R = alkyl, haloalkyl, (un)substituted Ph, quinolinyl, pyrrolyl, furyl or thienyl; R1 = H, (un)substituted alkyl, etc.; R2 = H, alkyl, R3 = R2, alkenyl, alkynyl, (un)substituted Ph; NR2R3 = heterocyclyl; R4,R5 = alkyl, alkoxy, etc.; M = H, metal, NH4, etc.; n = 0, 1, 2] and I acid adducts which are herbicides and plant growth regulators, were prepd.. One part I (R = 2-ClC6H4, R1 = M = H, R2 = R3 = R4 = Me, R5 = OMe, n = 2) formulated with 5 parts acetone and 1 part alkylaryl polyglycol ether controlled unspecified weed species when supplied pre- or postemergence.

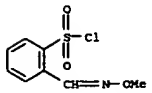
ACCESSION NUMBER: 1989:90612 CAPLUS
DOCUMENT NUMBER: 110:90612
TITLE: N'-(substituted-1,3,5-triazinyl)-N"-amino-N'''-(substituted-benzenesulfonyl)guanidine herbicides and plant growth regulators
INVENTOR(S): Diehr, Hans Joachim; Fest, Christa; Kluth, Joachim; Muller, Klaus Helmut; Pfister, Theodor; Priesnitz, Uwe; Riebel, Hans Jochem; Roy, Wolfgang; Santel, Hans Joachim; et al.
PATENT ASSIGNEE(S): Bayer A.-G., Fed. Rep. Ger.
SOURCE: U.S., 65 pp. Cont.-in-part of U.S. Ser. No. 769,222.
CODEN: USXXAM
DOCUMENT TYPE: Patent
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 8
PATENT INFORMATION:

| PATENT NO. | KIND | DATE | APPLICATION NO. | DATE |
|---|---|---|---|---|
| US 4743294 | A | 19880510 | US 1987-41260 | 19870422 |
| DE 3334455 | A1 | 19840906 | DE 1983-3334455 | 19830923 |
| US 4602938 | A | 19860729 | US 1984-578345 | 19840209 |
| DE 3517821 | A1 | 19860313 | DE 1985-3517821 | 19850517 |
| US 4721785 | A | 19880126 | US 1986-853822 | 19860418 |

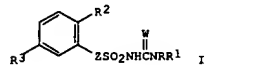
PRIORITY APPLN. INFO.:
DE 1983-3307679 19830304
DE 1983-3334455 19830923
US 1984-578345 19840209
DE 1984-3431925 19840830
DE 1985-3517821 19850517
US 1985-769222 19850823
US 1986-853822 19860418

OTHER SOURCE(S): MARPAT 110:90612
IT **94808-27-2P**
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation)

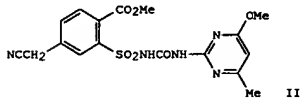
L10 ANSWER 19 OF 30 CAPLUS COPYRIGHT 2002 ACS (Continued)
(prepn. and reaction of, with pyrimidine and triazine derivs.)
RN 94808-27-2 CAPLUS
CN Benzenesulfonyl chloride, 2-[(methoxyimino)methyl]- (9CI) (CA INDEX NAME)



L10 ANSWER 20 OF 30 CAPLUS COPYRIGHT 2002 ACS
GI



I



II

AB The title compds. [I; R = H, Me; R1 = substituted 1H-1,2,4-triazol-2-yl, 1,3,5-triazin-2-ylmethyl, 2-pyridinyl (un)substituted 2-pyrimidinyl, 1,3,5-triazin-2-yl, and their fused-ring analogs; R2 = (halo)alkenyl, (halo)alkynyl, (halo)alkoxy, (halo)alkenyloxy, alkynyloxy, Ph, acyl, heterocyclyl, Br, Cl, F, (un)substituted alkyl; R3 = substituted alkyl, dioxolanyl, dithiolanyl, dioxanyl, dithianyl, etc.; W = O,S; Z = bond, CH2] were prepd. as herbicides. 4,2-Me(H2NSO2)C6H3CO2Me (3.5 g) was photochem. brominated with NBS to give 4.7 g of the 4-(bromomethyl) deriv. which (1.4 g) was treated with KCN to give 0.26 g of the 4-(cyanomethyl) deriv. The latter (0.12 g) was stirred in MeCN with Ph (4-methoxy-6-methyl-2-pyrimidinyl)carbamate in the presence of DBU to give 0.16 g pyrimidinylurea II. In postemergence tests 0.05 kg II/ha gave complete control of, e.g., morning glory and velvetleaf. Examples of application formulations are given.

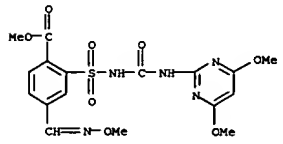
ACCESSION NUMBER: 1987:213967 CAPLUS
DOCUMENT NUMBER: 106:213967
TITLE: Herbicidal heterocyclyl(phenylsulfonyl)ureas
INVENTOR(S): Artz, Steven Powell
PATENT ASSIGNEE(S): du Pont de Nemours, E. I., and Co., USA
SOURCE: Eur. Pat. Appl., 127 pp.
CODEN: EPXXDW
DOCUMENT TYPE: Patent
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

| PATENT NO. | KIND | DATE | APPLICATION NO. | DATE |
|---|---|---|---|---|
| EP 205348 | A2 | 19861217 | EP 1986-304470 | 19860611 |
| EP 205348 | A3 | 19870624 | | |
| EP 205348 | B1 | 19910925 | | |
| R: AT, BE, CH, DE, FR, GB, IT, LI, LU, NL, SE | | | | |
| US 4678498 | A | 19870707 | US 1986-860229 | 19860512 |
| CA 1236459 | A1 | 19880510 | CA 1986-510939 | 19860605 |
| AU 8658599 | A1 | 19861218 | AU 1986-58599 | 19860612 |
| AU 592091 | B2 | 19900104 | | |
| JP 62016457 | A2 | 19870124 | JP 1986-135093 | 19860612 |
| US 4786314 | A | 19881122 | US 1987-108646 | 19871015 |
| US 4678498 | B1 | 19890124 | US 1988-90001562 | 19880624 |

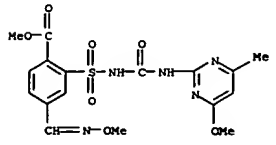
L10 ANSWER 20 OF 30 CAPLUS COPYRIGHT 2002 ACS (Continued)
US 4889550 A 19891226 US 1988-239219 19880901

PRIORITY APPLN. INFO.:
US 1985-743955 19850612
US 1986-860229 19860512
US 1987-41790 19870423
US 1987-108646 19871015

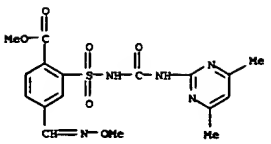
OTHER SOURCE(S): CASREACT 106:213967
IT **108356-21-4P 108356-22-5P 108356-23-6P**
**108356-24-7P 108356-25-8P 108356-26-9P**
RL: AGR (Agricultural use); BAC (Biological activity or effector, except adverse); SPN (Synthetic preparation); BIOL (Biological study); PREP (Preparation); USES (Uses)
(prepn. of, as herbicide)
RN 108356-21-4 CAPLUS
CN Benzoic acid, 2-[[[[(4,6-dimethoxy-2-pyrimidinyl)amino]carbonyl]amino]sulfonyl]-4-[(methoxyimino)methyl]-, methyl ester (9CI) (CA INDEX NAME)



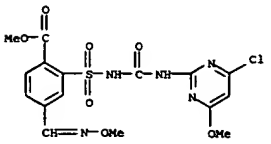
RN 108356-22-5 CAPLUS
CN Benzoic acid, 4-[(methoxyimino)methyl]-2-[[[[(4-methoxy-6-methyl-2-pyrimidinyl)amino]carbonyl]amino]sulfonyl]-, methyl ester (9CI) (CA INDEX NAME)



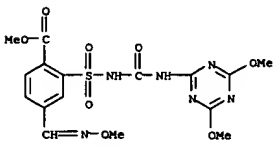
RN 108356-23-6 CAPLUS
CN Benzoic acid, 2-[[[[(4,6-dimethyl-2-pyrimidinyl)amino]carbonyl]amino]sulfonyl]-4-[(methoxyimino)methyl]-, methyl ester (9CI) (CA INDEX NAME)



RN 108356-24-7 CAPLUS
CN Benzoic acid, 2-[[[[(4-chloro-6-methoxy-2-pyrimidinyl)amino]carbonyl]amino]sulfonyl]-4-[(methoxyimino)methyl]-, methyl ester (9CI) (CA INDEX NAME)

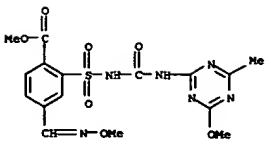


RN 108356-25-8 CAPLUS
CN Benzoic acid, 2-[[[[(4,6-dimethoxy-1,3,5-triazin-2-yl)amino]carbonyl]amino]sulfonyl]-4-[(methoxyimino)methyl]-, methyl ester (9CI) (CA INDEX NAME)



RN 108356-26-9 CAPLUS
CN Benzoic acid, 4-[(methoxyimino)methyl]-2-[[[[(4-methoxy-6-methyl-1,3,5-triazin-2-yl)amino]carbonyl]amino]sulfonyl]-, methyl ester (9CI) (CA INDEX NAME)





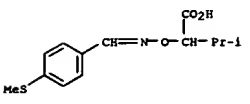


AB R1R2C:NOCHRCOX [I; R = C2-4 alkyl; R1 = H, C1-6 alkyl; R2 = alkyl, alkenyl, (substituted) Ph; X = halo, OH, OR3, OM; R3 = alkyl, alkoxyalkyl; M = alkali metal, alk. earth metal, NH4+, Ag+], useful as herbicides and plant growth regulators, are prepd. by treating a metal oxime salt with a 2-haloalkanoate ester. Thus, 9.75 g Me2CHCHBrCO2Et and 3-F3CC6H4CMe:NO-Na+, obtained by refluxing 2.0 g NaOH with 10.16 g oxime, were refluxed for 3 days in PhMe to give 7.33 g I (R = Me2CH; R1 = Me; R2 = 3-F3CC6H4; X = OEt). In preemergence tests against garden cress, I proved effective as a 0.025% spray soln.

ACCESSION NUMBER: 1987:4670 CAPLUS
DOCUMENT NUMBER: 106:4670
TITLE: .alpha.-(Benzylideneaminooxy)alkanoic acids and esters
INVENTOR(S): Sanborn, James Russell; Tieman, Charles Henry
PATENT ASSIGNEE(S): Shell Internationale Research Maatschappij B. V., Neth.
SOURCE: Eur. Pat. Appl., 20 pp.
CODEN: EPXXDW
DOCUMENT TYPE: Patent
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

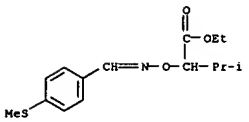
| PATENT NO. | KIND | DATE | APPLICATION NO. | DATE |
|---|---|---|---|---|
| EP 182407 | A1 | 19860528 | EP 1985-201699 | 19851015 |
| EP 182407 | B1 | 19900516 | | |
| R: AT, BE, CH, DE, FR, GB, IT, LI, LU, NL, SE | | | | |
| AT 52765 | E | 19900615 | AT 1985-201699 | 19851015 |
| BR 8505119 | A | 19860729 | BR 1985-5119 | 19851016 |
| PRIORITY APPLN. INFO.: | | | US 1984-662117 | 19841018 |
| | | | EP 1985-201699 | 19851015 |

IT **104367-75-1P 104403-16-9P**
RL: AGR (Agricultural use); BAC (Biological activity or effector, except adverse); SPN (Synthetic preparation); BIOL (Biological study); PREP (Preparation); USES (Uses)
(prepn. of, as herbicide and plant growth regulator)
RN 104367-75-1 CAPLUS
CN Butanoic acid, 3-methyl-2-[[[[4-(methylthio)phenyl]methylene]amino]oxy]-(9CI) (CA INDEX NAME)



RN 104403-16-9 CAPLUS
CN Butanoic acid, 3-methyl-2-[[[[4-(methylthio)phenyl]methylene]amino]oxy]-, ethyl ester (9CI) (CA INDEX NAME)





L10 ANSWER 22 OF 30 CAPLUS COPYRIGHT 2002 ACS
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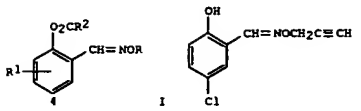


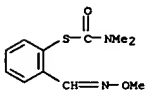
I II

AB Salicylaldehyde oxime derivs. I (R = C2-4 alkyl, HC.tplbond.CCH2, cyclopropylmethyl; R1 = F, 4-Cl; R2 = C1-6 alkyl optionally substituted with Cl, NO2) and related unclaimed derivs. were prepd. as nematocides (75 examples). Thus, N-hydroxyphthalimide was alkylated by HC.tplbond.CCH2Br, and the resulting N-(2-propynyloxy)phthalimide hydrolyzed to give HC.tplbond.CCH2ONH2.HCl. Oximation of 5-chlorosalicylaldehyde by the latter gave chlorosalicylaldehyde oxime II, which was acetylated by Ac2O-NaOAc to give I (R = HC.tplbond.CCH2; R1 = 4-Cl; R2 = Me) (III). Soil treatment with 25 ppm III gave complete control of Meloidogyne incognita infestation of tomato seedlings.

ACCESSION NUMBER: 1986:478654 CAPLUS
DOCUMENT NUMBER: 105:78654
TITLE: Nematicidal salicylaldehyde derivatives
INVENTOR(S): Peake, Clinton J.; DiSanzo, Carmine P.; Engel, John F.
PATENT ASSIGNEE(S): FMC Corp. , USA
SOURCE: U.S., 11 pp. Cont.-in-part of U.S. Ser. No. 273,899, abandoned.
CODEN: USXXAM
DOCUMENT TYPE: Patent
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

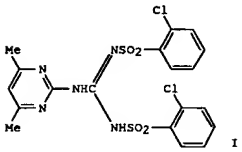
| PATENT NO. | KIND | DATE | APPLICATION NO. | DATE |
|---|---|---|---|---|
| US 4584318 | A | 19860422 | US 1983-505606 | 19830620 |
| PRIORITY APPLN. INFO.: | | | US 1981-273899 | 19810615 |

OTHER SOURCE(S): CASREACT 105:78654
IT 103743-45-9P
RL: BAC (Biological activity or effector, except adverse); SPN (Synthetic preparation); BIOL (Biological study); PREP (Preparation)
(prepn. and nematocidal activity of)
RN 103743-45-9 CAPLUS
CN Carbamothioic acid, dimethyl-, S-[2-[(methoxyimino)methyl]phenyl] ester (9CI) (CA INDEX NAME)



L10 ANSWER 22 OF 30 CAPLUS COPYRIGHT 2002 ACS (Continued)

L10 ANSWER 23 OF 30 CAPLUS COPYRIGHT 2002 ACS
GI



I

AB Herbicidal plant growth inhibiting (no data) RR1NC(:NR2)NHR3 [R = H, R4S(O)n, (un)substituted alkyl, cycloalkyl, alkenyl, alkynyl; R1 = H, OH, Me3Si, R4S(O)n, (un)substituted alkyl, cycloalkyl, alkenyl, alkynyl, aryl, heterocyclyl, amino; RR1N = heterocyclyl; R2 = H, R4S(O)n; R3 = halo, cyano, HCO, (un)substituted alkyl, alkoxy, heterocyclyl, amino; R4 = (un)substituted alkyl, aryl, heteroaryl; n = 0-2] and their tautomers and salts were prepd. Thus, 4,6-dimethylpyrimidine was condensed with Na2NCN to give 2-(cyanoamino)-4,6-dimethylpyrimidine. This was treated with MeONH2.HCl to give N-(4,6-dimethyl-2-pyrimidinyl)-N'-methoxyguanidine. This was acylated with 2-ClC6H4SO2Cl to give diacylated guanidine I.

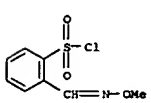
ACCESSION NUMBER: 1985:95661 CAPLUS
DOCUMENT NUMBER: 102:95661
TITLE: Guanidine derivatives
INVENTOR(S): Moriya, Koichi; Pfister, Theodor; Riebel, Jochem; Eue, Ludwig; Schmidt, Robert R.; Luerssen, Klaus
PATENT ASSIGNEE(S): Bayer A.-G. , Fed. Rep. Ger.
SOURCE: Ger. Offen., 134 pp.
CODEN: GWXXBX
DOCUMENT TYPE: Patent
LANGUAGE: German
FAMILY ACC. NUM. COUNT: 8
PATENT INFORMATION:

| PATENT NO. | KIND | DATE | APPLICATION NO. | DATE |
|---|---|---|---|---|
| DE 3334455 | A1 | 19840906 | DE 1983-3334455 | 19830923 |
| AU 8424259 | A1 | 19840906 | AU 1984-24259 | 19840208 |
| AU 561585 | B2 | 19870514 | | |
| US 4602938 | A | 19860729 | US 1984-578345 | 19840209 |
| EP 121082 | A1 | 19841010 | EP 1984-101910 | 19840223 |
| EP 121082 | B1 | 19891108 | | |
| R: AT, BE, CH, DE, FR, GB, IT, LI, NL, SE | | | | |
| AT 47845 | E | 19891115 | AT 1984-101910 | 19840223 |
| BR 8400887 | A | 19841009 | BR 1984-887 | 19840227 |
| DK 8401484 | A | 19840905 | DK 1984-1484 | 19840229 |
| JP 59167570 | A2 | 19840921 | JP 1984-37415 | 19840301 |
| DD 223055 | A5 | 19850605 | DD 1984-260469 | 19840301 |
| DD 229691 | A5 | 19851113 | DD 1984-277164 | 19840301 |
| IL 71118 | A1 | 19870916 | IL 1984-71118 | 19840301 |
| ES 530263 | A1 | 19841101 | ES 1984-530263 | 19840302 |
| HU 34324 | A2 | 19850328 | HU 1984-854 | 19840302 |
| HU 198611 | B | 19891128 | | |

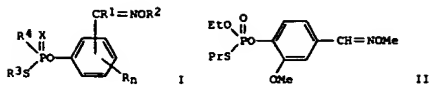
L10 ANSWER 23 OF 30 CAPLUS COPYRIGHT 2002 ACS (Continued)

| | | | | |
|---|---|---|---|---|
| ZA 8401585 | A | 19850626 | ZA 1984-1585 | 19840302 |
| CA 1233180 | A1 | 19880223 | CA 1984-448787 | 19840302 |
| US 4721785 | A | 19880126 | US 1986-853822 | 19860418 |
| US 4725305 | A | 19880216 | US 1986-931368 | 19861114 |
| US 4725303 | A | 19880216 | US 1986-931380 | 19861114 |
| US 4797484 | A | 19890110 | US 1987-5800 | 19870116 |
| US 4743294 | A | 19880510 | US 1987-41260 | 19870422 |
| US 4880932 | A | 19891114 | US 1987-44083 | 19870429 |
| US 4844730 | A | 19890704 | US 1988-224973 | 19880727 |
| PRIORITY APPLN. INFO.: | | | DE 1983-3307679 | 19830304 |
| | | | DE 1983-3334455 | 19830923 |
| | | | US 1984-578345 | 19840209 |
| | | | EP 1984-101910 | 19840223 |
| | | | DE 1984-3431924 | 19840830 |
| | | | DE 1984-3431925 | 19840830 |
| | | | DE 1985-3517821 | 19850517 |
| | | | DE 1985-3517842 | 19850517 |
| | | | US 1985-769222 | 19850823 |
| | | | US 1985-769271 | 19850823 |
| | | | US 1986-853822 | 19860418 |
| | | | US 1987-44083 | 19870429 |

OTHER SOURCE(S): CASREACT 102:95661
IT 94808-27-2P
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation)
(prepn. and sulfonylation by, of guanidine derivs.)
RN 94808-27-2 CAPLUS
CN Benzenesulfonyl chloride, 2-[(methoxyimino)methyl]- (9CI) (CA INDEX NAME)



L10 ANSWER 24 OF 30 CAPLUS COPYRIGHT 2002 ACS
GI



I II

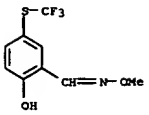
AB Title compds. I (X = O, S; R = halo, NO2, cyano, alkyl, alkoxy, alkylthio,
haloalkyl, -alkoxy, or -alkylthio; R1 = H, alkyl; R2, R3 = alkyl; R4 = alkyl, alkoxy, aryl; n = 0-2) were prepd. and shown to have acaricidal and
nematocidal activity. Thus, 4-F3CC6H4OH was formylated with urotropine-HF, treated with MeONH2, and phosphorylated with PrS(EtO)POCl to give the ester II.

ACCESSION NUMBER: 1984:630771 CAPLUS
DOCUMENT NUMBER: 101:230771
TITLE: Substituted oxime ethers
INVENTOR(S): Krueger, Bernd Wieland; Kysela, Ernst; Stetter, Joerg;
Becker, Benedikt; Homeyer, Bernhard; Stendel, Wilhelm
PATENT ASSIGNEE(S): Bayer A.-G. , Fed. Rep. Ger.
SOURCE: Ger. Offen., 39 pp.
CODEN: GWXXBX
DOCUMENT TYPE: Patent
LANGUAGE: German
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

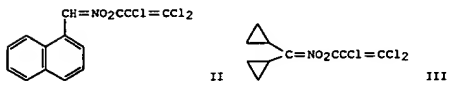
| PATENT NO. | KIND | DATE | APPLICATION NO. | DATE |
|---|---|---|---|---|
| DE 3304203 | A1 | 19840809 | DE 1983-3304203 | 19830208 |
| EP 115828 | A1 | 19840815 | EP 1984-100853 | 19840127 |
| R: AT, BE, CH, DE, FR, GB, IT, LI, NL | | | | |
| AU 8424065 | A1 | 19840816 | AU 1984-24065 | 19840203 |
| JP 59148793 | A2 | 19840825 | JP 1984-18499 | 19840206 |
| DK 8400542 | A | 19840809 | DK 1984-542 | 19840207 |
| ZA 8400891 | A | 19840926 | ZA 1984-891 | 19840207 |
| ES 529520 | A1 | 19841116 | ES 1984-529520 | 19840207 |

PRIORITY APPLN. INFO.: DE 1983-3304203 19830208
OTHER SOURCE(S): CASREACT 101:230771
IT **93249-68-4P**
RL: SPN (Synthetic preparation); PREP (Preparation)
(prepn. and phosphorylation of)
RN 93249-68-4 CAPLUS
CN Benzaldehyde, 2-hydroxy-5-[(trifluoromethyl)thio]-, O-methyloxime (9CI) (CA INDEX NAME)

L10 ANSWER 24 OF 30 CAPLUS COPYRIGHT 2002 ACS (Continued)



L10 ANSWER 25 OF 30 CAPLUS COPYRIGHT 2002 ACS
GI



II III

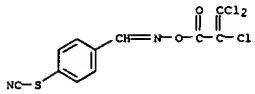
AB Cl2C:CClCO2N:CRR1 (I) (R,R1 = H, lower alkyl, benzyl, cycloalkyl, naphthyl, aryl, etc.) were prepd. and shown, in some cases, to be more effective fungicides than kilazin P. Thus, 100 mL PhMe soln. contg. 40 g Cl2C:CClCOCl were added at .ltoreq.20.degree. to 30 g PhCH:NOH and 26 g Et3N in 400 mL PhMe, and the mixt. was heated 2 h at 50.degree. to give 58
g I (R = Ph, R1 = H). Among 39 other I prepd. were I [R,R1 = Me,Me; Me,Et; (RR1=) cyclohexylidene], the naphthyl analog II, and the dicyclopropyl analog III.

ACCESSION NUMBER: 1984:610740 CAPLUS
DOCUMENT NUMBER: 101:210740
TITLE: Trichloroacryloyl oxime derivatives
INVENTOR(S): Yamada, Yasuo; Saito, Junichi; Gotoh, Toshio; Katsumata, Osamu; Sakawa, Shinji
PATENT ASSIGNEE(S): Nihon Tokushu Noyaku Seizo K. K. , Japan
SOURCE: Eur. Pat. Appl., 34 pp.
CODEN: EPXXDW
DOCUMENT TYPE: Patent
LANGUAGE: German
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

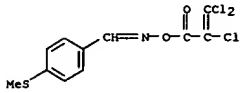
| PATENT NO. | KIND | DATE | APPLICATION NO. | DATE |
|---|---|---|---|---|
| EP 112524 | A1 | 19840704 | EP 1983-112276 | 19831207 |
| EP 112524 | B1 | 19860528 | | |
| R: AT, BE, CH, DE, FR, GB, IT, LI, NL | | | | |
| JP 59110665 | A2 | 19840626 | JP 1982-220165 | 19821217 |
| US 4581365 | A | 19860408 | US 1983-557688 | 19831202 |
| IL 70443 | A1 | 19870130 | IL 1983-70443 | 19831214 |
| BR 8306913 | A | 19840724 | BR 1983-6913 | 19831215 |
| ZA 8309329 | A | 19840829 | ZA 1983-9329 | 19831215 |
| DK 8305810 | A | 19840618 | DK 1983-5810 | 19831216 |
| AU 8322504 | A1 | 19840621 | AU 1983-22504 | 19831219 |

PRIORITY APPLN. INFO.: JP 1982-220165 19821217
OTHER SOURCE(S): CASREACT 101:210740
IT **93033-41-1P**
RL: AGR (Agricultural use); BAC (Biological activity or effector, except adverse); SPN (Synthetic preparation); BIOL (Biological study); PREP (Preparation); USES (Uses)
(prepn. and fungicidal activity of)
RN 93033-41-1 CAPLUS
CN Thiocyanic acid, 4-[[[(2,3,3-trichloro-1-oxo-2-propenyl)oxy]imino]methyl]phenyl ester (9CI) (CA INDEX NAME)

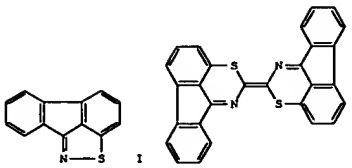
L10 ANSWER 25 OF 30 CAPLUS COPYRIGHT 2002 ACS (Continued)



IT **93033-18-2P**
RL: AGR (Agricultural use); BAC (Biological activity or effector, except adverse); SPN (Synthetic preparation); BIOL (Biological study); PREP (Preparation); USES (Uses)
(prepn. of, as fungicide)
RN 93033-18-2 CAPLUS
CN Benzaldehyde, 4-(methylthio)-, O-(2,3,3-trichloro-1-oxo-2-propenyl)oxime (9CI) (CA INDEX NAME)



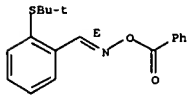
L10 ANSWER 26 OF 30 CAPLUS COPYRIGHT 2002 ACS
GI



AB Some of the factors influencing the prepn. of 1,2-benzisothiazoles from 2-(alkylthio)phenyl-substituted oximes are discussed. Good yields of 3-aryl-1,2-benzisothiazoles may be obtained from readily available precursors. Reaction takes place under particularly mild conditions when a tert-butylthio function is situated anti to the leaving group at oxime-nitrogen and S-N overlap is not restricted by ring-strain in the transition-state. The corresponding N-methylhydroxamic acid derivs. give good yields of 2-methyl-1,2-benzisothiazol-3(2H)-one only when a tert-butylthio substituent is present. The ethylthio and isopropylthio analogs give the vinyl thioethers, while the methylthio derivs. undergo a novel rearrangement to "Pummerer" esters. The prepn. of the fluorenothiazole I and bi(fluorenothiazine) II is described.

ACCESSION NUMBER: 1982:438872 CAPLUS
DOCUMENT NUMBER: 97:38872
TITLE: Thermal fission of hydroxylamine derivatives with neighboring-group-participation by thioether functions: preparation of 1,2-benzisothiazoles
AUTHOR(S): Lawson, Alexander J.
CORPORATE SOURCE: Inst. Org. Chem., Univ. Mainz, Mainz, D-6500, Fed. Rep. Ger.
SOURCE: Phosphorus Sulfur (1982), 12(3), 357-67
CODEN: PREEDF; ISSN: 0308-664X
DOCUMENT TYPE: Journal
LANGUAGE: English
OTHER SOURCE(S): CASREACT 97:38872
IT **82070-26-6P**
RL: SPN (Synthetic preparation); PREP (Preparation)
(prepn. and thermal cyclization of, benzisothiazole deriv. from)
RN 82070-26-6 CAPLUS
CN Benzaldehyde, 2-[(1,1-dimethylethyl)thio]-, O-benzoyloxime, (E)- (9CI) (CA INDEX NAME)

Double bond geometry as shown.

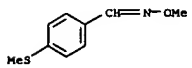


L10 ANSWER 26 OF 30 CAPLUS COPYRIGHT 2002 ACS (Continued)

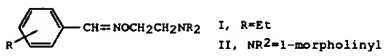
L10 ANSWER 27 OF 30 CAPLUS COPYRIGHT 2002 ACS

AB IR intensities of the Me group CH band, 1H and 13C NMR chem. shifts, and 13CH coupling consts. (J) were detd. for 4-RC6H4MMe (I; R = NH2, MeO, Me, H, halo, MeS, MeCO, NO2; M= CO, SO, SO2, O, S, CH:NO ). Each quantity was a sensitive measure of the local electron d. distribution around the Me group, but only J yielded a quant. evaluation of the transmission coeffs. of the CO, O, S, and Se bridges. In I (M = SO, SO2) the effect of R on the spectral properties of the Me group were appreciable in a CD3CN solvent but were not significant in CCl4.

ACCESSION NUMBER: 1981:514554 CAPLUS
DOCUMENT NUMBER: 95:114554
TITLE: IR and NMR spectroscopic study of the transfer of the effect of substituents to the methyl group in 4-RC6H4MCH3 systems containing M = CO, SO, SO2, O, S, CH:NO heterobridges
AUTHOR(S): Tupitsyn, I. F.; Zatsepina, N. N.; Kolodina, N. S.
CORPORATE SOURCE: Gos. Inst. Prikl. Khim., Leningrad, USSR
SOURCE: Zh. Obshch. Khim. (1981), 51(4), 918-27
CODEN: ZOKHA4; ISSN: 0044-460X
DOCUMENT TYPE: Journal
LANGUAGE: Russian
IT **78728-58-2**
RL: PRP (Properties)
(IR spectrum of)
RN 78728-58-2 CAPLUS
CN Benzaldehyde, 4-(methylthio)-, O-methyloxime (9CI) (CA INDEX NAME)



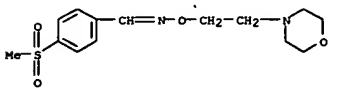
L10 ANSWER 28 OF 30 CAPLUS COPYRIGHT 2002 ACS
GI



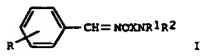
I, R=Et
II, $NR^2$=1-morpholinyl

AB Twenty-one substituted benzaldoximes, 11 I and 10 II (R = NO2, halide, Ph, Me, iso-Pr, or MeSO2), were examd. for a structure-analgesic activity relationship, using the phenylbenzoquinone-writhing test in mice and the Hansch equation (1969). A correlation was obsd. between analgesic activity and the hydrophobic parameter .pi., the electronic parameter F, and the stearic parameter Es. The greatest activity was obsd. with high F and .pi. values and when stearic hinderance of the 2 or 3 position of the arom. ring was minimal.

ACCESSION NUMBER: 1977:83518 CAPLUS
DOCUMENT NUMBER: 86:83518
TITLE: O-Aminoalkylbenzaldoximes. II. Quantitative structure-analgesic activity correlations
AUTHOR(S): Bernhart, Claude; Wermuth, Camille G.
CORPORATE SOURCE: Fac. Pharm., Univ. Louis Pasteur, Strasbourg, Fr.
SOURCE: Eur. J. Med. Chem. - Chim. Ther. (1976), 11(4), 378-80
CODEN: EJMCA5
DOCUMENT TYPE: Journal
LANGUAGE: French
IT **61819-98-5**
RL: BAC (Biological activity or effector, except adverse); THU (Therapeutic use); BIOL (Biological study); USES (Uses)
(analgesic activity of)
RN 61819-98-5 CAPLUS
CN Benzaldehyde, 4-(methylsulfonyl)-, O-[2-(4-morpholinyl)ethyl]oxime (9CI) (CA INDEX NAME)



L10 ANSWER 29 OF 30 CAPLUS COPYRIGHT 2002 ACS
GI



I

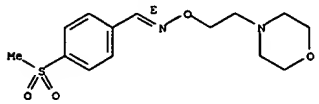
AB Thirty O-substituted benzaldoximes I, and 10 of their isomeric or isosteric analogs, were prepd. and examd. for analgesic activity. O-(2-N,N-diethylaminoethyl)-4-chlorobenzaldoxime-HCl (I-HCl, R = p-Cl, R1=R2 = Et, X = CH2CH2) [61733-99-1], orally, was the most effective in the Randall and Selitto (1957) (ED50 = 16 mg/kg) and Cheymol et al. (1959)
(ED50 = 32 mg/kg) tests. Almost all compds. tested had analgesic activity
with the greatest effect occurring when R was an electrophilic para substituent and X = CH2CH2.

ACCESSION NUMBER: 1977:83517 CAPLUS
DOCUMENT NUMBER: 86:83517
TITLE: O-Aminoalkylbenzaldoximes. I. Synthesis, structure and pharmacological properties
AUTHOR(S): Bernhart, Claude; Wermuth, Camille G.; Cahn, Jean; Herold, Monique; Borzeix, Marie G.
CORPORATE SOURCE: Fac. Pharm., Univ. Louis-Pasteur, Strasbourg, Fr.
SOURCE: Eur. J. Med. Chem. - Chim. Ther. (1976), 11(4), 369-77
CODEN: EJMCA5
DOCUMENT TYPE: Journal
LANGUAGE: French

IT 61734-16-5P
RL: SPN (Synthetic preparation); PREP (Preparation)
(prepn. of, as analgesic)

RN 61734-16-5 CAPLUS
CN Benzaldehyde, 4-(methylsulfonyl)-, O-[2-(4-morpholinyl)ethyl]oxime, monohydrochloride, (E)- (9CI) (CA INDEX NAME)

Double bond geometry as shown.



● HCl

L10 ANSWER 30 OF 30 CAPLUS COPYRIGHT 2002 ACS
GI For diagram(s), see printed CA Issue.

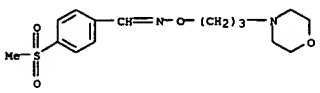
AB About 40 benzaldoximes [I; Rn = H, halo, Me, NO2, 2,4-(NO2)2, OH, 3,4-(OH)2, etc.; R1 = H, Me; R2 = Et; or NR22 = heterocyclyl; Q = (CH2)2, (CH2)3, CH2C:CCH2], with analgesic activity in mice and rats, were prepd. (as salts, e.g., hydrochlorides, acid oxalates, fumarates) from RnC6H5-nCR1:NOH. Thus, a mixt. of m-O2NC6H4CH:NOH and 1-chloro-2-morpholinoethane in alc. contg. NaOMe was heated at reflux for 6 hr and the product acidified with HCl to give I.HCl [Rn = m-NO2, R1 = H,
Q = (CH2)2, NR22 = morpholino]. Mannich reaction of p-O2NC6H4-CH:NOCH2C.tplbond.CH, prepd. from the .omicron.-unsubstituted oxime, with morpholine and HCHO gave I (Rn = p-NO2, R1 = H, Q = CH2C.tplbond.CCH2, NR22 = morpholino). Two naphthalene analogs of I were similarly prepd.

ACCESSION NUMBER: 1974:477675 CAPLUS
DOCUMENT NUMBER: 81:77675
TITLE: Substituted benzaldoximes
INVENTOR(S): Cahn, Jean; Wermuth, Camille G.
PATENT ASSIGNEE(S): Choay S. A.
SOURCE: Can., 33 pp.
CODEN: CAXXA4
DOCUMENT TYPE: Patent
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

| PATENT NO. | KIND | DATE | APPLICATION NO. | DATE |
|---|---|---|---|---|
| CA 943959 | A1 | 19740319 | CA 1971-104441 | 19710204 |

IT 31856-56-1P 31856-74-3P
RL: SPN (Synthetic preparation); PREP (Preparation)
(prepn. of)

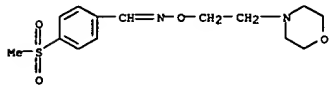
RN 31856-56-1 CAPLUS
CN Benzaldehyde, 4-(methylsulfonyl)-, O-[3-(4-morpholinyl)propyl]oxime, monohydrochloride (9CI) (CA INDEX NAME)



● HCl

RN 31856-74-3 CAPLUS
CN Benzaldehyde, 4-(methylsulfonyl)-, O-[2-(4-morpholinyl)ethyl]oxime, monohydrochloride (9CI) (CA INDEX NAME)

L10 ANSWER 30 OF 30 CAPLUS COPYRIGHT 2002 ACS (Continued)



● HCl

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| NEWS 3 | Jan 29 | FSTA has been reloaded and moves to weekly updates |
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| NEWS 5 | Feb 19 | Access via Tymnet and SprintNet Eliminated Effective 3/31/02 |
| NEWS 6 | Mar 08 | Gene Names now available in BIOSIS |
| NEWS 7 | Mar 22 | TOXLIT no longer available |
| NEWS 8 | Mar 22 | TRCTHERMO no longer available |
| NEWS 9 | Mar 28 | US Provisional Priorities searched with P in CA/CAplus and USPATFULL |
| NEWS 10 | Mar 28 | LIPINSKI/CALC added for property searching in REGISTRY |
| NEWS 11 | Apr 02 | PAPERCHEM no longer available on STN. Use PAPERCHEM2 instead. |
| NEWS 12 | Apr 08 | "Ask CAS" for self-help around the clock |
| NEWS 13 | Apr 09 | BEILSTEIN: Reload and Implementation of a New Subject Area |
| NEWS 14 | Apr 09 | ZDB will be removed from STN |
| NEWS 15 | Apr 19 | US Patent Applications available in IFICDB, IFIPAT, and IFIUDB |
| NEWS 16 | Apr 22 | Records from IP.com available in CAPLUS, HCAPLUS, and ZCAPLUS |
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| NEWS 18 | Apr 22 | Federal Research in Progress (FEDRIP) now available |

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| NEWS INTER | General Internet Information |
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STRUCTURE FILE UPDATES:  28 MAY 2002  HIGHEST RN 422506-41-0
DICTIONARY FILE UPDATES:  28 MAY 2002  HIGHEST RN 422506-41-0

TSCA INFORMATION NOW CURRENT THROUGH July 7, 2001

  Please note that search-term pricing does apply when
  conducting SmartSELECT searches.

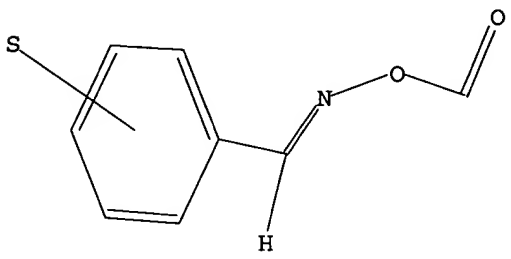
Crossover limits have been increased.  See HELP CROSSOVER for details.

Calculated physical property data is now available.  See HELP PROPERTIES
for more information.  See STNote 27, Searching Properties in the CAS
Registry File, for complete details:
http://www.cas.org/ONLINE/STN/STNOTES/stnotes27.pdf

=>
Uploading 09734625.str

L1      STRUCTURE UPLOADED

=> d query
L1              STR




Structure attributes must be viewed using STN Express query preparation.

=> s l1
SAMPLE SEARCH INITIATED 12:25:41 FILE 'REGISTRY'
SAMPLE SCREEN SEARCH COMPLETED -    870 TO ITERATE

100.0% PROCESSED     870 ITERATIONS                                3 ANSWERS
SEARCH TIME: 00.00.01

FULL FILE PROJECTIONS:  ONLINE  **COMPLETE**
                        BATCH   **COMPLETE**
PROJECTED ITERATIONS:        15631 TO    19169
PROJECTED ANSWERS:               3 TO      163

L2            3 SEA SSS SAM L1

=> s l1 full
FULL SEARCH INITIATED 12:25:45 FILE 'REGISTRY'
FULL SCREEN SEARCH COMPLETED -  17202 TO ITERATE

100.0% PROCESSED   17202 ITERATIONS                             109 ANSWERS
SEARCH TIME: 00.00.01

L3          109 SEA SSS FUL L1

=> fil caplus
COST IN U.S. DOLLARS                          SINCE FILE      TOTAL

| | ENTRY | SESSION |
|---|---|---|
| FULL ESTIMATED COST | 140.66 | 140.87 |

FILE 'CAPLUS' ENTERED AT 12:25:52 ON 30 MAY 2002
USE IS SUBJECT TO THE TERMS OF YOUR STN CUSTOMER AGREEMENT.
PLEASE SEE "HELP USAGETERMS" FOR DETAILS.


FILE COVERS 1907 - 30 May 2002 VOL 136 ISS 22
FILE LAST UPDATED: 29 May 2002 (20020529/ED)

This file contains CAS Registry Numbers for easy and accurate substance identification.

CAS roles have been modified effective December 16, 2001. Please check your SDI profiles to see if they need to be revised. For information on CAS roles, enter HELP ROLES at an arrow prompt or use the CAS Roles thesaurus (/RL field) in this file.

=> s l3
L4 5 L3

=> d l4 1-5 abs ibib hitstr

L4 ANSWER 1 OF 5 CAPLUS COPYRIGHT 2002 ACS

AB The invention relates to a photopolymn. initiator of oxime ester for a photoresist compn., wherein the oxime is deriv. of Ar1-C=N-OR1(H) ( R1 = cycloalkanoyl, benzoyl, alkenoyl; Ar1 = aryl, aroyl). The photopolymn. initiator provides the alkali-developable light-sensitive photoresist compn., which shows the improved storageability, of the high resoln. and the good storageability.

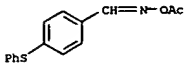
ACCESSION NUMBER: 2001:752026 CAPLUS
DOCUMENT NUMBER: 135:280493
TITLE: Photopolymerization initiator of oxime ester for light-sensitive photoresist composition
INVENTOR(S): Kunimoto, Kazuhiko; Oka, Hidetaka; Ohwa, Masaki; Tanabe, Junichi; Kura, Hisatoshi; Birbaum, Jean Luc
PATENT ASSIGNEE(S): Ciba Specialty Chemicals Holding Inc., Switz.
SOURCE: Fr. Demande, 171 pp.
CODEN: FRXXBL
DOCUMENT TYPE: Patent
LANGUAGE: French
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

| PATENT NO. | KIND | DATE | APPLICATION NO. | DATE |
|---|---|---|---|---|
| FR 2802528 | A1 | 20010622 | FR 2000-16306 | 20001214 |
| NL 1016815 | A1 | 20010618 | NL 2000-1016815 | 20001206 |
| GB 2358017 | B2 | 20020313 | GB 2000-29793 | 20001207 |
| US 2001012596 | A1 | 20010809 | US 2000-734625 | 20001212 |
| JP 2001233842 | A2 | 20010828 | JP 2000-377671 | 20001212 |
| FI 2000002730 | A | 20010616 | FI 2000-2730 | 20001213 |
| DE 10061947 | A1 | 20010621 | DE 2000-10061947 | 20001213 |
| CN 1299812 | A | 20010620 | CN 2000-135980 | 20001215 |
| BR 2000006379 | A | 20010724 | BR 2000-6379 | 20001215 |

PRIORITY APPLN. INFO.: EP 1999-811160 A 19991215
EP 2000-810629 A 20000717

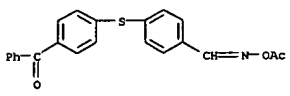
IT 362624-48-4P 362624-51-9P 362624-59-7P
362624-60-0P 362624-61-1P 362624-62-2P
362624-63-3P 362624-64-4P 362624-65-5P
362624-66-6P 362624-67-7P 362624-68-8P
362624-73-5P 362624-84-8P 362624-85-9P
362624-87-1P 362624-88-2P 362624-89-3P
362624-94-0P 362624-96-2P 362625-00-1P
362625-01-2P
RL: CAT (Catalyst use); SPN (Synthetic preparation); PREP (Preparation); USES (Uses)
(light-sensitive color filter compn. contg. oxime esters used in optical imaging devices)

RN 362624-48-4 CAPLUS
CN Benzaldehyde, 4-(phenylthio)-, O-acetyloxime (9CI) (CA INDEX NAME)

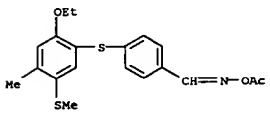


RN 362624-51-9 CAPLUS
CN Benzaldehyde, 2,4-dimethyl-6-(methylthio)-, O-benzoyloxime (9CI) (CA INDEX NAME)

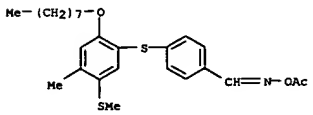
L4 ANSWER 1 OF 5 CAPLUS COPYRIGHT 2002 ACS (Continued)



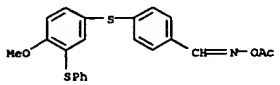
RN 362624-64-4 CAPLUS
CN Benzaldehyde, 4-[[2-ethoxy-4-methyl-5-(methylthio)phenyl]thio]-, O-acetyloxime (9CI) (CA INDEX NAME)



RN 362624-65-5 CAPLUS
CN Benzaldehyde, 4-[[4-methyl-5-(methylthio)-2-(octyloxy)phenyl]thio]-, O-acetyloxime (9CI) (CA INDEX NAME)

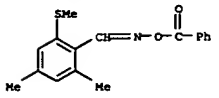


RN 362624-66-6 CAPLUS
CN Benzaldehyde, 4-[[4-methoxy-3-(phenylthio)phenyl]thio]-, O-acetyloxime (9CI) (CA INDEX NAME)

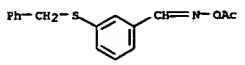


RN 362624-67-7 CAPLUS
CN Benzaldehyde, 4-[[3-phenoxy-4-(phenylthio)phenyl]thio]-, O-acetyloxime (9CI) (CA INDEX NAME)

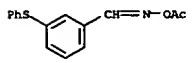
L4 ANSWER 1 OF 5 CAPLUS COPYRIGHT 2002 ACS (Continued)



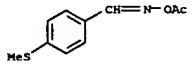
RN 362624-59-7 CAPLUS
CN Benzaldehyde, 3-[(phenylmethyl)thio]-, O-acetyloxime (9CI) (CA INDEX NAME)



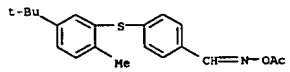
RN 362624-60-0 CAPLUS
CN Benzaldehyde, 3-(phenylthio)-, O-acetyloxime (9CI) (CA INDEX NAME)



RN 362624-61-1 CAPLUS
CN Benzaldehyde, 4-(methylthio)-, O-acetyloxime (9CI) (CA INDEX NAME)

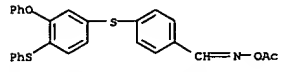


RN 362624-62-2 CAPLUS
CN Benzaldehyde, 4-[[5-(1,1-dimethylethyl)-2-methylphenyl]thio]-, O-acetyloxime (9CI) (CA INDEX NAME)

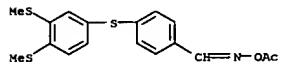


RN 362624-63-3 CAPLUS
CN Benzaldehyde, 4-[(4-benzoylphenyl)thio]-, 1-(O-acetyloxime) (9CI) (CA INDEX NAME)

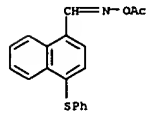
L4 ANSWER 1 OF 5 CAPLUS COPYRIGHT 2002 ACS (Continued)



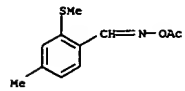
RN 362624-68-8 CAPLUS
CN Benzaldehyde, 4-[[3,4-bis(methylthio)phenyl]thio]-, O-acetyloxime (9CI) (CA INDEX NAME)



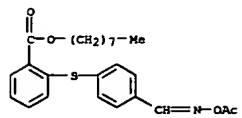
RN 362624-73-5 CAPLUS
CN 1-Naphthalenecarboxaldehyde, 4-(phenylthio)-, O-acetyloxime (9CI) (CA INDEX NAME)



RN 362624-84-8 CAPLUS
CN Benzaldehyde, 4-methyl-2-(methylthio)-, O-acetyloxime (9CI) (CA INDEX NAME)

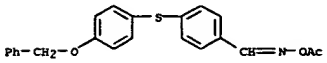


RN 362624-85-9 CAPLUS
CN Benzoic acid, 2-[[4-[[(acetyloxy)imino]methyl]phenyl]thio]-, octyl ester (9CI) (CA INDEX NAME)

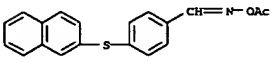


L4 ANSWER 1 OF 5 CAPLUS COPYRIGHT 2002 ACS (Continued)

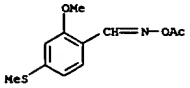
RN 362624-87-1 CAPLUS
CN Benzaldehyde, 4-[[4-(phenylmethoxy)phenyl]thio]-, O-acetyloxime (9CI) (CA INDEX NAME)



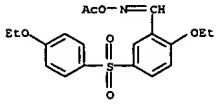
RN 362624-88-2 CAPLUS
CN Benzaldehyde, 4-(2-naphthalenylthio)-, O-acetyloxime (9CI) (CA INDEX NAME)



RN 362624-89-3 CAPLUS
CN Benzaldehyde, 2-methoxy-4-(methylthio)-, O-acetyloxime (9CI) (CA INDEX NAME)

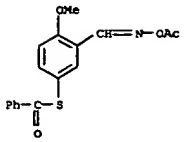


RN 362624-94-0 CAPLUS
CN Benzaldehyde, 2-ethoxy-5-[(4-ethoxyphenyl)sulfonyl]-, O-acetyloxime (9CI) (CA INDEX NAME)

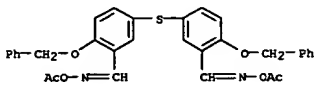


RN 362624-96-2 CAPLUS
CN Benzenecarbothioic acid, S-[3-[[(acetyloxy)imino]methyl]-4-methoxyphenyl] ester (9CI) (CA INDEX NAME)

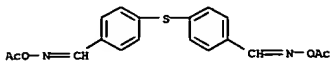
L4 ANSWER 1 OF 5 CAPLUS COPYRIGHT 2002 ACS (Continued)



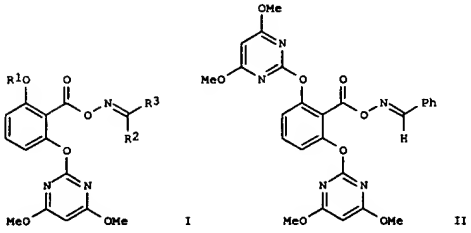
RN 362625-00-1 CAPLUS
CN Benzaldehyde, 3,3'-thiobis[6-(phenylmethoxy)-, 1,1'-bis(O-acetyloxime) (9CI) (CA INDEX NAME)



RN 362625-01-2 CAPLUS
CN Benzaldehyde, 4,4'-thiobis-, 1,1'-bis(O-acetyloxime) (9CI) (CA INDEX NAME)



L4 ANSWER 2 OF 5 CAPLUS COPYRIGHT 2002 ACS
GI



AB The invention relates to novel herbicidal pyrimidine derivs. I [R1 = 4,6-dimethoxy-2-pyrimidinyl, C1-4 alkyl, C2-4 alkenyl, acyl, alkylsulfonyl or heteroarylmethyl; R2 = H, halo, cyano, NO2, C1-8 alkyl, C1-8 alkoxy, C1-8 alkythio, C1-8 alkoxycarbonyl, C2-4 alkenyloxycarbonyl, (hetero)arylmethoxycarbonyl, C1-4 alkylaminocarbonyl, aryl-C1-4 alkylaminocarbonyl, heteroarylmethylaminocarbonyl, aryl, C2-8 alkenyl, C3-6 cycloalkyl, PhCH2, aryloxy, arylthio, or C1-8 alkylcarbonyl; R3 = (un)substituted Ph, COR4; R4 = H, C1-4 alkyl, C2-4 alkenyl, C3-6 cycloalkyl, PhCH2, aryl, C1-4 alkoxy, C2-4 alkenyloxy, C3-6 cycloalkoxy, PhCH2O, aryloxy, C1-4 alkythio, C2-4 alkenylthio, C3-6 cycloalkylthio, PhCH2S, arythio, amino which can be substituted with C1-C4 alkyl or aryl or arylmethyl], as well as a process for their prepn., and their herbicidal compns. I have excellent activity against both narrow- and broadleaf weeds, with increased safety for crops (esp. directly sown rice). For example, 2,6-bis(4,6-dimethoxypyrimidin-2-yl)oxybenzoic acid was treated with 2,2'-dipyridyl disulfide and PPh3 in PhMe to give 90% of the corresponding 2-pyridyl thioester, which reacted with benzaldehyde oxime in CH2Cl2 in the presence of CuBr2 to give 85% title compd. II. At 63 g/ha postemergence under paddy field conditions, II gave complete control of 7 weeds with no damage to direct-sown rice seedlings. Characterizing phys. and herbicidal data for 73 compds. are given.

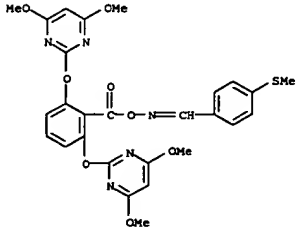
ACCESSION NUMBER: 1995:810566 CAPLUS
DOCUMENT NUMBER: 123:228208
TITLE: Pyrimidine derivatives, process for their preparation, and their use as herbicides.
INVENTOR(S): Hur, Chang Uk; Cho, Jin Ho; Hong, Su Myeong; Kim, Hong Woo; Lim, Young Hee; Rim, Jae Suk; Kim, Jeong Su; Chae, Sang Heon
PATENT ASSIGNEE(S): Lucky Ltd., S. Korea
SOURCE: Eur. Pat. Appl., 54 pp.
CODEN: EPXXDW
DOCUMENT TYPE: Patent
LANGUAGE: English

L4 ANSWER 2 OF 5 CAPLUS COPYRIGHT 2002 ACS (Continued)
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

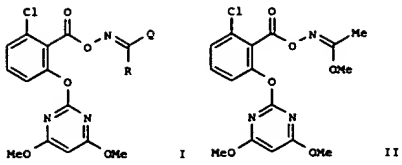
| PATENT NO. | KIND | DATE | APPLICATION NO. | DATE |
|---|---|---|---|---|
| EP 658549 | A1 | 19950621 | EP 1994-117857 | 19941111 |
| EP 658549 | B1 | 20010523 | | |
| R: CH, DE, FR, GB, LI, NL | | | | |
| KR 9701480 | B1 | 19970206 | KR 1993-24099 | 19931113 |
| KR 120271 | B1 | 19971104 | KR 1993-30055 | 19931227 |
| KR 120270 | B1 | 19971104 | KR 1993-31016 | 19931229 |
| US 5521146 | A | 19960528 | US 1994-339249 | 19941110 |
| BR 9404436 | A | 19951017 | BR 1994-4436 | 19941111 |
| CN 1111623 | A | 19951115 | CN 1994-117926 | 19941111 |
| CN 1043885 | B | 19990630 | | |
| AU 9478812 | A1 | 19950608 | AU 1994-78812 | 19941114 |
| AU 673629 | B2 | 19961114 | | |
| JP 07196629 | A2 | 19950801 | JP 1994-279506 | 19941114 |
| JP 2517215 | B2 | 19960724 | | |

PRIORITY APPLN. INFO.: KR 1993-24099 A 19931113
KR 1993-30055 A 19931227
KR 1993-31016 A 19931229
OTHER SOURCE(S): CASREACT 123:228208; MARPAT 123:228208

IT 168088-53-7P
RL: AGR (Agricultural use); BAC (Biological activity or effector, except adverse); SPN (Synthetic preparation); BIOL (Biological study); PREP (Preparation); USES (Uses)
(prepn. of pyrimidine derivs. as herbicides)
RN 168088-53-7 CAPLUS
CN Benzaldehyde, 4-(methylthio)-, O-[2,6-bis[(4,6-dimethoxy-2-pyrimidinyl)oxy]benzoyl]oxime (9CI) (CA INDEX NAME)



L4 ANSWER 3 OF 5 CAPLUS COPYRIGHT 2002 ACS
GI



I II

AB New 6-chloro-2-[(4,6-dimethoxy-2-pyrimidinyl)oxy]benzoates [(2-[[(alkyeneamino)oxy]carbonyl]-1-chloro-3-phenoxy]pyrimidines] I (R = H, halo, cyano, etc.; Q = alkyl, alkenyl, cycloalkyl, etc.) were disclosed. I were claimed as herbicides. An example compd. 2-[1-chloro-[[[[1-methoxyethylidene)amino]oxy]carbonyl]phenoxy]-4,6-dimethoxypyrimidine (II) was prepd.

ACCESSION NUMBER: 1994:605344 CAPLUS
DOCUMENT NUMBER: 121:205344
TITLE: Novel 6-chloro-2-(4,6-dimethoxypyrimidin-2-yl) oxybenzoic acid ester derivatives, processes for their production and their application as herbicides.
INVENTOR(S): Hur, Chang Uk; Cho, Jin Ho; Lee, Ho Seong; Yoo, Sang Ku; Hong, Su Myeong; Kim, Hong Woo; Rim, Jae Suk; Bae, Yeong Tae; Chae, Sand Heon; et al.
PATENT ASSIGNEE(S): Lucky Ltd., S. Korea
SOURCE: Eur. Pat. Appl., 82 pp.
CODEN: EPXXDW
DOCUMENT TYPE: Patent
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

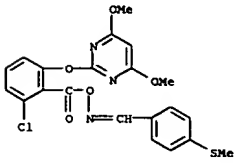
| PATENT NO. | KIND | DATE | APPLICATION NO. | DATE |
|---|---|---|---|---|
| EP 608862 | A1 | 19940803 | EP 1994-101132 | 19940126 |
| R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IE, IT, LI, LU, MC, NL, PT, SE | | | | |
| KR 9603323 | B1 | 19960308 | KR 1993-1017 | 19930127 |
| KR 9612180 | B1 | 19960916 | KR 1993-10097 | 19930604 |
| KR 9612179 | B1 | 19960916 | KR 1993-10098 | 19930604 |
| KR 9612181 | B1 | 19960916 | KR 1993-10099 | 19930604 |
| KR 9612194 | B1 | 19960916 | KR 1993-10100 | 19930604 |
| KR 9612195 | B1 | 19960916 | KR 1993-10101 | 19930604 |
| CN 1101345 | A | 19950412 | CN 1994-102665 | 19940126 |
| US 5494888 | A | 19960227 | US 1994-186589 | 19940126 |
| BR 9400365 | A | 19940816 | BR 1994-365 | 19940127 |
| JP 07149735 | A2 | 19950613 | JP 1994-7824 | 19940127 |
| JP 2543665 | B2 | 19961016 | | |

PRIORITY APPLN. INFO.: KR 1993-1017 A 19930127

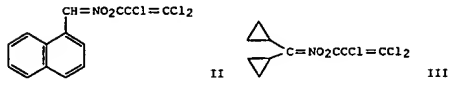
L4 ANSWER 3 OF 5 CAPLUS COPYRIGHT 2002 ACS (Continued)

| | | | |
|---|---|---|---|
| KR 1993-10097 | A | 19930604 | |
| KR 1993-10098 | A | 19930604 | |
| KR 1993-10099 | A | 19930604 | |
| KR 1993-10100 | A | 19930604 | |
| KR 1993-10101 | A | 19930604 | |

OTHER SOURCE(S): MARPAT 121:205344
IT 157990-23-3P
RL: AGR (Agricultural use); BAC (Biological activity or effector, except adverse); SPN (Synthetic preparation); BIOL (Biological study); PREP (Preparation); USES (Uses)
(prepn. of, as herbicide)
RN 157990-23-3 CAPLUS
CN Benzaldehyde, 4-(methylthio)-, O-[2-chloro-6-[(4,6-dimethoxy-2-pyrimidinyl)oxy]benzoyl]oxime (9CI) (CA INDEX NAME)



L4 ANSWER 4 OF 5 CAPLUS COPYRIGHT 2002 ACS
GI



II III

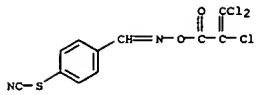
AB Cl2C:CClCO2N:CRR1 (I) (R,R1 = H, lower alkyl, benzyl, cycloalkyl, naphthyl, aryl, etc.) were prepd. and shown, in some cases, to be more effective fungicides than kilazin P. Thus, 100 mL PhMe soln. contg. 40 g Cl2C:CClCOCl were added at .ltoreq.20.degree. to 30 g PhCH:NOH and 26 g Et3N in 400 mL PhMe, and the mixt. was heated 2 h at 50.degree. to give 58 g I (R = Ph, R1 = H). Among 39 other I prepd. were I [R,R1 = Me,Me; Me,Et; (RR1=) cyclohexylidene], the naphthyl analog II, and the dicyclopropyl analog III.

ACCESSION NUMBER: 1984:610740 CAPLUS
DOCUMENT NUMBER: 101:210740
TITLE: Trichloroacryloyl oxime derivatives
INVENTOR(S): Yamada, Yasuo; Saito, Junichi; Gotoh, Toshio; Katsumata, Osamu; Sakawa, Shinji
PATENT ASSIGNEE(S): Nihon Tokushu Noyaku Seizo K. K. , Japan
SOURCE: Eur. Pat. Appl., 34 pp.
CODEN: EPXXDW
DOCUMENT TYPE: Patent
LANGUAGE: German
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

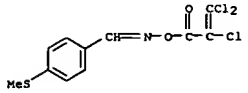
| PATENT NO. | KIND | DATE | APPLICATION NO. | DATE |
|---|---|---|---|---|
| EP 112524 | A1 | 19840704 | EP 1983-112276 | 19831207 |
| EP 112524 | B1 | 19860528 | | |
| R: AT, BE, CH, DE, FR, GB, IT, LI, NL | | | | |
| JP 59110665 | A2 | 19840626 | JP 1982-220165 | 19821217 |
| US 4581365 | A | 19860408 | US 1983-557688 | 19831202 |
| IL 70443 | A1 | 19870130 | IL 1983-70443 | 19831214 |
| BR 8306913 | A | 19840724 | BR 1983-6913 | 19831215 |
| ZA 8309329 | A | 19840829 | ZA 1983-9329 | 19831215 |
| DK 8305810 | A | 19840618 | DK 1983-5810 | 19831216 |
| AU 8322504 | A1 | 19840621 | AU 1983-22504 | 19831219 |

PRIORITY APPLN. INFO.: JP 1982-220165 19821217
OTHER SOURCE(S): CASREACT 101:210740
IT 93033-41-1P
RL: AGR (Agricultural use); BAC (Biological activity or effector, except adverse); SPN (Synthetic preparation); BIOL (Biological study); PREP (Preparation); USES (Uses)
(prepn. and fungicidal activity of)
RN 93033-41-1 CAPLUS
CN Thiocyanic acid, 4-[[[(2,3,3-trichloro-1-oxo-2-propenyl)oxy]imino]methyl]phenyl ester (9CI) (CA INDEX NAME)

L4 ANSWER 4 OF 5 CAPLUS COPYRIGHT 2002 ACS (Continued)



IT 93033-18-2P
RL: AGR (Agricultural use); BAC (Biological activity or effector, except adverse); SPN (Synthetic preparation); BIOL (Biological study); PREP (Preparation); USES (Uses)
(prepn. of, as fungicide)
RN 93033-18-2 CAPLUS
CN Benzaldehyde, 4-(methylthio)-, O-(2,3,3-trichloro-1-oxo-2-propenyl)oxime (9CI) (CA INDEX NAME)



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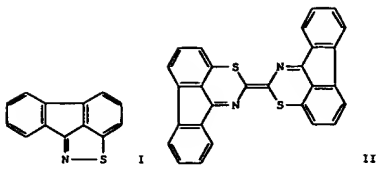
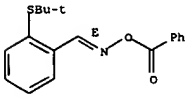


I II

AB Some of the factors influencing the prepn. of 1,2-benzisothiazoles from 2-(alkylthio)phenyl-substituted oximes are discussed. Good yields of 3-aryl-1,2-benzisothiazoles may be obtained from readily available precursors. Reaction takes place under particularly mild conditions when a tert-butylthio function is situated anti to the leaving group at oxime-nitrogen and S-N overlap is not restricted by ring-strain in the transition-state. The corresponding N-methylhydroxamic acid derivs. give good yields of 2-methyl-1,2-benzisothiazol-3(2H)-one only when a tert-butylthio substituent is present. The ethylthio and isopropylthio analogs give the vinyl thioethers, while the methylthio derivs. undergo a novel rearrangement to "Pummerer" esters. The prepn. of the fluorenothiazole I and bi(fluorenothiazine) II is described.

ACCESSION NUMBER: 1982:438872 CAPLUS
DOCUMENT NUMBER: 97:38872
TITLE: Thermal fission of hydroxylamine derivatives with neighboring-group-participation by thioether functions: preparation of 1,2-benzisothiazoles
AUTHOR(S): Lawson, Alexander J.
CORPORATE SOURCE: Inst. Org. Chem., Univ. Mainz, Mainz, D-6500, Fed. Rep. Ger.
SOURCE: Phosphorus Sulfur (1982), 12(3), 357-67
CODEN: PREEDF; ISSN: 0308-664X
DOCUMENT TYPE: Journal
LANGUAGE: English
OTHER SOURCE(S): CASREACT 97:38872
IT **82070-26-6P**
RL: SPN (Synthetic preparation); PREP (Preparation)
(prepn. and thermal cyclization of, benzisothiazole deriv. from)
RN 82070-26-6 CAPLUS
CN Benzaldehyde, 2-[(1,1-dimethylethyl)thio]-, O-benzoyloxime, (E)- (9CI) (CA INDEX NAME)

Double bond geometry as shown.



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FULL ESTIMATED COST                                        23.93     164.80

DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS)              SINCE FILE      TOTAL
                                                           ENTRY    SESSION
CA SUBSCRIBER PRICE                                        -3.10      -3.10

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DICTIONARY FILE UPDATES:  28 MAY 2002  HIGHEST RN 422506-41-0

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  Please note that search-term pricing does apply when
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Calculated physical property data is now available.  See HELP PROPERTIES
for more information.  See STNote 27, Searching Properties in the CAS
Registry File, for complete details:
http://www.cas.org/ONLINE/STN/STNOTES/stnotes27.pdf

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L5      STRUCTURE UPLOADED

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L5              STR
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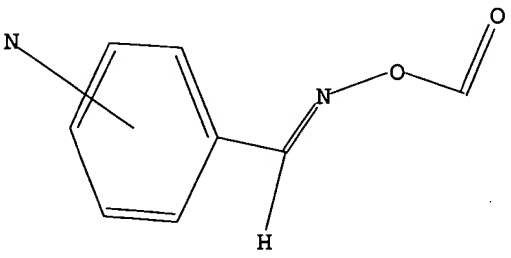


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Structure attributes must be viewed using STN Express query preparation.


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100.0% PROCESSED     870 ITERATIONS                          23 ANSWERS
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FULL FILE PROJECTIONS:  ONLINE   **COMPLETE**
                        BATCH    **COMPLETE**
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PROJECTED ANSWERS:             173 TO      747

L6           23 SEA SSS SAM L5

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L7       STRUCTURE UPLOADED

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L7               STR
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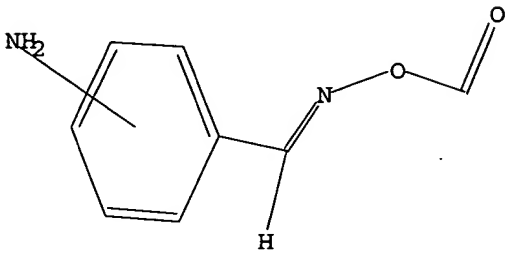


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Structure attributes must be viewed using STN Express query preparation.


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SAMPLE SCREEN SEARCH COMPLETED -    870 TO ITERATE

100.0% PROCESSED     870 ITERATIONS                                0 ANSWERS
SEARCH TIME: 00.00.01

FULL FILE PROJECTIONS:  ONLINE  **COMPLETE**
                        BATCH   **COMPLETE**
PROJECTED ITERATIONS:        15631 TO    19169
PROJECTED ANSWERS:               0 TO        0

L8             0 SEA SSS SAM L7

=> s l7 full
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FULL SCREEN SEARCH COMPLETED -  17202 TO ITERATE

100.0% PROCESSED   17202 ITERATIONS                              0 ANSWERS
SEARCH TIME: 00.00.01

L9             0 SEA SSS FUL L7

=>  s l5 full
FULL SEARCH INITIATED 12:32:40 FILE 'REGISTRY'
FULL SCREEN SEARCH COMPLETED -  17202 TO ITERATE

100.0% PROCESSED   17202 ITERATIONS                            319 ANSWERS
SEARCH TIME: 00.00.01

L10          319 SEA SSS FUL L5
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                                                           ENTRY    SESSION
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DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS)              SINCE FILE      TOTAL
                                                           ENTRY    SESSION
CA SUBSCRIBER PRICE                                          0.00      -3.10

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FILE COVERS 1907 - 30 May 2002  VOL 136 ISS 22
FILE LAST UPDATED: 29 May 2002  (20020529/ED)

  This file contains CAS Registry Numbers for easy and accurate
  substance identification.

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check your SDI profiles to see if they need to be revised. For
information on CAS roles, enter HELP ROLES at an arrow prompt or use
the CAS Roles thesaurus (/RL field) in this file.

=> s l10
L11          68 L10

=> d l11 1-68 abs ibib hitstr
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L11 ANSWER 1 OF 68 CAPLUS COPYRIGHT 2002 ACS

AB The invention relates to a photopolymn. initiator of oxime ester for a photoresist compn., wherein the oxime is deriv. of Ar1-C=N-OR1(H) ( R1 = cycloalkanoyl, benzoyl, alkenoyl; Ar1 = aryl, aroyl). The photopolymn. initiator provides the alkali-developable light-sensitive photoresist compn., which shows the improved storageability, of the high resoln. and the good storageability.

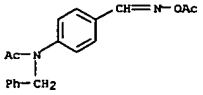
ACCESSION NUMBER: 2001:752026 CAPLUS
DOCUMENT NUMBER: 135:280493
TITLE: Photopolymerization initiator of oxime ester for light-sensitive photoresist composition
INVENTOR(S): Kunimoto, Kazuhiko; Oka, Hidetaka; Ohwa, Masaki; Tanabe, Junichi; Kura, Hisatoshi; Birbaum, Jean Luc
PATENT ASSIGNEE(S): Ciba Specialty Chemicals Holding Inc., Switz.
SOURCE: Fr. Demande, 171 pp.
CODEN: FRXXBL
DOCUMENT TYPE: Patent
LANGUAGE: French
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

| PATENT NO. | KIND | DATE | APPLICATION NO. | DATE |
|---|---|---|---|---|
| FR 2802528 | A1 | 20010622 | FR 2000-16306 | 20001214 |
| NL 1016815 | A1 | 20010618 | NL 2000-1016815 | 20001206 |
| GB 2358017 | B2 | 20020313 | GB 2000-29793 | 20001207 |
| US 2001012596 | A1 | 20010809 | US 2000-734625 | 20001212 |
| JP 2001233842 | A2 | 20010828 | JP 2000-377671 | 20001212 |
| FI 2000002730 | A | 20010616 | FI 2000-2730 | 20001213 |
| DE 10061947 | A1 | 20010621 | DE 2000-10061947 | 20001213 |
| CN 1299812 | A | 20010620 | CN 2000-135980 | 20001215 |
| BR 2000006379 | A | 20010724 | BR 2000-6379 | 20001215 |

PRIORITY APPLN. INFO.: EP 1999-811160 A 19991215
EP 2000-810629 A 20000717

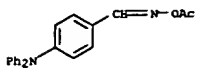
IT **362624-53-1P 362624-79-1P**
RL: CAT (Catalyst use); SPN (Synthetic preparation); PREP (Preparation); USES (Uses)
(light-sensitive color filter compn. contg. oxime esters used in optical imaging devices)

RN 362624-53-1 CAPLUS
CN Acetamide, N-[4-[[(acetyloxy)imino]methyl]phenyl]-N-(phenylmethyl)- (9CI) (CA INDEX NAME)



RN 362624-79-1 CAPLUS
CN Benzaldehyde, 4-(diphenylamino)-, O-acetyloxime (9CI) (CA INDEX NAME)

L11 ANSWER 1 OF 68 CAPLUS COPYRIGHT 2002 ACS (Continued)



L11 ANSWER 2 OF 68 CAPLUS COPYRIGHT 2002 ACS

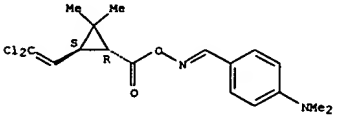
AB Twelve of novel substituted benzaldehyde oxime ester of pyrethroid acids were synthesized, and their insecticidal activities and fungicidal activities were examd.

ACCESSION NUMBER: 2001:276318 CAPLUS
DOCUMENT NUMBER: 135:88602
TITLE: Synthesis and bioactivity of substituted benzaldehyde oxime carboxylate (IV) synthesis and bioactivity of 4-dimethyl(ethyl)amine benzaldehyde oxime ester of pyrethroid acids
AUTHOR(S): Ma, Jun'an; Huang, Runqiu; Feng, Lei; Chai, Youxin
CORPORATE SOURCE: Institute of Elemento-organic Chemistry, Nankai University, Tianjin, 300071, Peop. Rep. China
SOURCE: Nongyaoxue Xuebao (1999), 1(3), 8-13
CODEN: NXOUAS; ISSN: 1008-7303
PUBLISHER: Nongyaoxue Xuebao Bianjibu
DOCUMENT TYPE: Journal
LANGUAGE: Chinese
OTHER SOURCE(S): CASREACT 135:88602

IT **349450-99-3 349451-00-9 349451-01-0**
**349451-02-1**
RL: BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); BIOL (Biological study)
(synthesis and bioactivity of substituted benzaldehyde oxime carboxylate - synthesis and bioactivity of 4-dimethyl(ethyl)amine benzaldehyde oxime ester of pyrethroid acids)

RN 349450-99-3 CAPLUS
CN Benzaldehyde, 4-(dimethylamino)-, O-[[(1R,3S)-3-(2,2-dichloroethenyl)-2,2-dimethylcyclopropyl]carbonyl]oxime, rel- (9CI) (CA INDEX NAME)

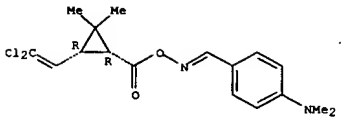
Relative stereochemistry.
Double bond geometry unknown.



RN 349451-00-9 CAPLUS
CN Benzaldehyde, 4-(dimethylamino)-, O-[[(1R,3R)-3-(2,2-dichloroethenyl)-2,2-dimethylcyclopropyl]carbonyl]oxime, rel- (9CI) (CA INDEX NAME)

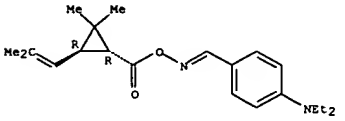
Relative stereochemistry.
Double bond geometry unknown.

L11 ANSWER 2 OF 68 CAPLUS COPYRIGHT 2002 ACS (Continued)



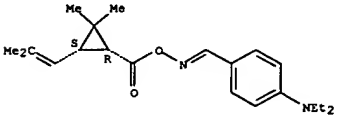
RN 349451-01-0 CAPLUS
CN Benzaldehyde, 4-(diethylamino)-, O-[[(1R,3R)-2,2-dimethyl-3-(2-methyl-1-propenyl)cyclopropyl]carbonyl]oxime, rel- (9CI) (CA INDEX NAME)

Relative stereochemistry.
Double bond geometry unknown.



RN 349451-02-1 CAPLUS
CN Benzaldehyde, 4-(diethylamino)-, O-[[(1R,3S)-2,2-dimethyl-3-(2-methyl-1-propenyl)cyclopropyl]carbonyl]oxime, rel- (9CI) (CA INDEX NAME)

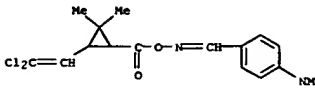
Relative stereochemistry.
Double bond geometry unknown.



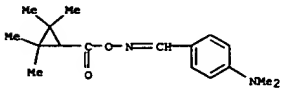
IT **205937-83-3P 246532-31-0P 246532-32-1P**
**349450-90-4P 349450-91-5P 349450-92-6P**
**349450-93-7P 349450-94-8P 349450-95-9P**
**349450-96-0P 349450-97-1P 349450-98-2P**
RL: BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); PRP (Properties); SPN (Synthetic preparation); BIOL (Biological study); PREP (Preparation)
(synthesis and bioactivity of substituted benzaldehyde oxime carboxylate - synthesis and bioactivity of 4-dimethyl(ethyl)amine benzaldehyde oxime ester of pyrethroid acids)

RN 205937-83-3 CAPLUS
CN Benzaldehyde, 4-(dimethylamino)-, O-[[3-(2,2-dichloroethenyl)-2,2-dimethylcyclopropyl]carbonyl]oxime (9CI) (CA INDEX NAME)

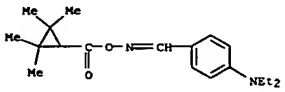
L11 ANSWER 2 OF 68 CAPLUS COPYRIGHT 2002 ACS (Continued)



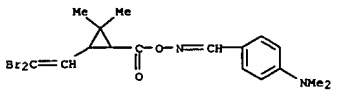
RN 246532-31-0 CAPLUS
CN Benzaldehyde, 4-(dimethylamino)-, O-[(2,2,3,3-tetramethylcyclopropyl)carbonyl]oxime (9CI) (CA INDEX NAME)



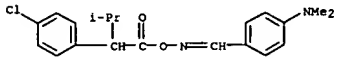
RN 246532-32-1 CAPLUS
CN Benzaldehyde, 4-(diethylamino)-, O-[(2,2,3,3-tetramethylcyclopropyl)carbonyl]oxime (9CI) (CA INDEX NAME)



RN 349450-90-4 CAPLUS
CN Benzaldehyde, 4-(dimethylamino)-, O-[[3-(2,2-dibromoethenyl)-2,2-dimethylcyclopropyl]carbonyl]oxime (9CI) (CA INDEX NAME)

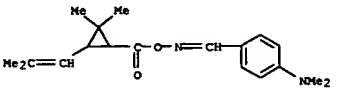


RN 349450-91-5 CAPLUS
CN Benzaldehyde, 4-(dimethylamino)-, O-[2-(4-chlorophenyl)-3-methyl-1-oxobutyl]oxime (9CI) (CA INDEX NAME)

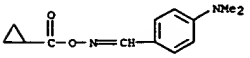


L11 ANSWER 2 OF 68 CAPLUS COPYRIGHT 2002 ACS (Continued)

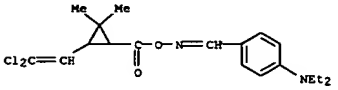
RN 349450-92-6 CAPLUS
CN Benzaldehyde, 4-(dimethylamino)-, O-[[2,2-dimethyl-3-(2-methyl-1-propenyl)cyclopropyl]carbonyl]oxime (9CI) (CA INDEX NAME)



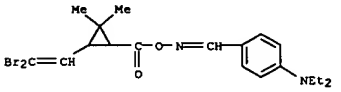
RN 349450-93-7 CAPLUS
CN Benzaldehyde, 4-(dimethylamino)-, O-(cyclopropylcarbonyl)oxime (9CI) (CA INDEX NAME)



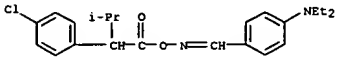
RN 349450-94-8 CAPLUS
CN Benzaldehyde, 4-(diethylamino)-, O-[[3-(2,2-dichloroethenyl)-2,2-dimethylcyclopropyl]carbonyl]oxime (9CI) (CA INDEX NAME)



RN 349450-95-9 CAPLUS
CN Benzaldehyde, 4-(diethylamino)-, O-[[3-(2,2-dibromoethenyl)-2,2-dimethylcyclopropyl]carbonyl]oxime (9CI) (CA INDEX NAME)

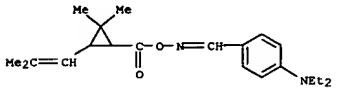


RN 349450-96-0 CAPLUS
CN Benzaldehyde, 4-(diethylamino)-, O-[2-(4-chlorophenyl)-3-methyl-1-oxobutyl]oxime (9CI) (CA INDEX NAME)

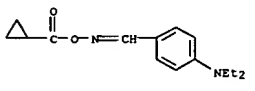


L11 ANSWER 2 OF 68 CAPLUS COPYRIGHT 2002 ACS (Continued)

RN 349450-97-1 CAPLUS
CN Benzaldehyde, 4-(diethylamino)-, O-[[2,2-dimethyl-3-(2-methyl-1-propenyl)cyclopropyl]carbonyl]oxime (9CI) (CA INDEX NAME)



RN 349450-98-2 CAPLUS
CN Benzaldehyde, 4-(diethylamino)-, O-(cyclopropylcarbonyl)oxime (9CI) (CA INDEX NAME)



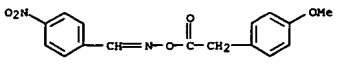
L11 ANSWER 3 OF 68 CAPLUS COPYRIGHT 2002 ACS

AB A new safety catch linker for esters has been synthesized on polystyrene resin. This 2-tert-butoxyphenol resin may be acylated to give a relatively stable ester that will allow nucleophilic chem. without reaction at the linking ester group. Removal of the tert-Bu group with acid unmasks a highly reactive 2-hydroxyphenyl ester that reacts readily with nucleophiles to cause release of the product from the resin. This sequence has been exemplified by acylating the resin with various bromo acids, carrying out nucleophilic displacements with thiols, phenols, or amines, activating the ester with trifluoroacetic acid and cleaving from the resin with amines to give the (nucleophile) substituted carboxamides in high yield and purity. Kinetic studies with a model ester revealed half-lives for reaction with morpholine of 119 h for the tert-butoxyphenyl ester and 1 min for the corresponding phenol.

ACCESSION NUMBER: 2001:172610 CAPLUS
DOCUMENT NUMBER: 134:352969
TITLE: The Preparation of a New "Safety Catch" Ester Linker for Solid-Phase Synthesis
AUTHOR(S): Beech, Claire L.; Coope, John F.; Fairley, Gary; Gilbert, Philip S.; Main, Brian G.; Ple, Karen
CORPORATE SOURCE: AstraZeneca Pharmaceuticals Ltd., Macclesfield Cheshire, SK10 4TG, UK
SOURCE: Journal of Organic Chemistry (2001), 66(7), 2240-2245
CODEN: JOCEAH; ISSN: 0022-3263
PUBLISHER: American Chemical Society
DOCUMENT TYPE: Journal
LANGUAGE: English

IT 339306-03-5DP, polymer-supported
RL: PRP (Properties); RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)
(rate of reaction of polymer-supported esters with morpholine)

RN 339306-03-5 CAPLUS
CN Benzaldehyde, 4-nitro-, O-[(4-methoxyphenyl)acetyl]oxime (9CI) (CA INDEX NAME)



REFERENCE COUNT: 15 THERE ARE 15 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

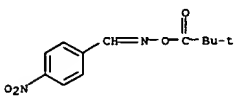
L11 ANSWER 4 OF 68 CAPLUS COPYRIGHT 2002 ACS

AB Photolyses of aldoxime esters, contg. a considerable range of alkyl groups, lead to cleavage of their N-O bonds and formation of aryliminyl and alkyl radicals. The process was found to be favored by 4-methoxyacetophenone as a photosensitizer and by methoxy substituents in the aryl rings. 4-Nitro- and pentafluoro-substitutions of the aryl rings were, on the other hand, deleterious. The intermediate iminyl radicals, together with primary, secondary and tertiary alkyl radicals were characterized by 9 GHz EPR spectroscopy. Cyclopropyl, CF3, and CCl3 radicals were probably also formed, but were too reactive for direct EPR spectroscopic detection. Photosensitized reaction of benzophenone oxime O-nonanoyl ester produced the diphenylmethaniminoxyl, as well as the expected n-octyl and iminyl radicals. This indicated that O-C bond scission accompanied O-N scission for this ketoxime ester. At higher temps. the C-centered radicals added to the starting oxime esters to produce alkoxyaminyl radicals that were also spectroscopically detected in some cases. No evidence for abstraction of the iminyl hydrogen by tert-butoxyl radicals was obtained. Instead, the t-BuO.bul. radicals added to the C:N double bonds of the oxime esters. Similarly, chlorine abstraction from alkylbenzohydroximoyl chlorides by trimethyltin radicals did not take place. Preparative scale expts. with oxime esters contg. suitably unsatd. alkyl groups showed that good yields of cyclised products could be obtained in the presence of the photosensitizer. This process constitutes a general method by which carboxylic acids or acid chlorides can be converted into alkyl radicals and hence to cyclized derivs.

ACCESSION NUMBER: 2000:832599 CAPLUS
DOCUMENT NUMBER: 134:178233
TITLE: Exploitation of aldoxime esters as radical precursors in preparative and EPR spectroscopic roles
AUTHOR(S): McCarroll, Andrew J.; Walton, John C.
CORPORATE SOURCE: University of St. Andrews, School of Chemistry, St Andrews, Fife, KY16 9ST, UK
SOURCE: Perkin 2 (2000), (12), 2399-2409
CODEN: PRKTFO; ISSN: 1470-1820
PUBLISHER: Royal Society of Chemistry
DOCUMENT TYPE: Journal
LANGUAGE: English
OTHER SOURCE(S): CASREACT 134:178233

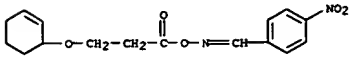
IT **326853-02-5P 326853-03-6P**
RL: PEP (Physical, engineering or chemical process); RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); PROC (Process); RACT (Reactant or reagent)
(attempted photolysis; preparative and ESR studies of the photolysis of aldoxime esters as radical precursors)

RN 326853-02-5 CAPLUS
CN Benzaldehyde, 4-nitro-, O-(2,2-dimethyl-1-oxopropyl)oxime (9CI) (CA INDEX NAME)



L11 ANSWER 4 OF 68 CAPLUS COPYRIGHT 2002 ACS (Continued)

RN 326853-03-6 CAPLUS
CN Benzaldehyde, 4-nitro-, O-[3-(2-cyclohexen-1-yloxy)-1-oxopropyl]oxime (9CI) (CA INDEX NAME)



REFERENCE COUNT: 48 THERE ARE 48 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

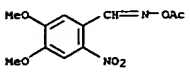
L11 ANSWER 5 OF 68 CAPLUS COPYRIGHT 2002 ACS

AB The synthesis of caged NADP analogs 18, 19, and 20 has been accomplished by utilizing the transglycosidase activity of solubilized NAD glycohydrolase (porcine brain) to incorporate caged nicotinamides 2, 3, and 4 into NADP. The synthesis of several nicotinamides modified at the carboxamide with o-nitrobenzyl photolabile groups is demonstrated as well as their potential for enzymic transglycosidation. These results further demonstrate the feasibility of direct enzymic transglycosidation of sterically hindered substrates into NAD(P), although high nicotinamide analog water soly. was found to be a necessary trait for yield enhancement with certain analogs. Caged analogs were surveyed under aq. conditions for net NADP photorelease, while the UV and fluorescent properties of both analogs and their photobyproducts were assessed for compatibility with systems that rely on optical monitoring of enzyme activity. A highly water-sol. .alpha.-methyl-o-nitrobenzyl group 8 was developed for the synthesis of 20 in order to enhance net NADP photorelease. Compd. 20 demonstrated a high 75% net NADP photoreleased without substantial UV optical blackening or fluorescent byproducts. Analogs 18 and 19 were shown by ESI/MALDI-MS to photogenerate primarily adducts of NADP with deleterious UV and fluorescent properties. Our work stresses the superior release properties conferred by .alpha.-Me substitution on aq. carboxamide photorelease from o-nitrobenzyl compds.

ACCESSION NUMBER: 2000:380207 CAPLUS
DOCUMENT NUMBER: 133:173856
TITLE: Enzymatic Synthesis of Caged NADP Cofactors: Aqueous NADP Photorelease and Optical Properties
AUTHOR(S): Salerno, Charles P.; Magde, Douglas; Patron, Andrew P.
CORPORATE SOURCE: Department of Chemistry and Biochemistry, University of California at San Diego, La Jolla, CA, 92093-0506, USA
SOURCE: Journal of Organic Chemistry (2000), 65(13), 3971-3981
CODEN: JOCEAH; ISSN: 0022-3263
PUBLISHER: American Chemical Society
DOCUMENT TYPE: Journal
LANGUAGE: English
OTHER SOURCE(S): CASREACT 133:173856

IT **288591-59-3P**
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)
(enzymic synthesis of caged NADP cofactors and aq. NADP photorelease and optical properties)

RN 288591-59-3 CAPLUS
CN Benzaldehyde, 4,5-dimethoxy-2-nitro-, O-acetyloxime (9CI) (CA INDEX NAME)



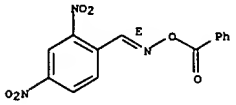
REFERENCE COUNT: 57 THERE ARE 57 CITED REFERENCES AVAILABLE FOR THIS

L11 ANSWER 5 OF 68 CAPLUS COPYRIGHT 2002 ACS (Continued)
RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L11 ANSWER 6 OF 68 CAPLUS COPYRIGHT 2002 ACS
AB The second order rate coeff. k2 for elimination reaction of (E)-2,4-(NO2)2C6H4CH:NO2CC6H4X (X = H, p-MeO, m-Br, p-NO2) to 2,4-(NO2)2C6H4CN + XC6H4CO2- promoted by R2NH [Bz(i-Pr)NH, i-Bu2NH, i-Pr2NH, 2,6-DMP] showed excellent correlation with pKa of R2NH on Bronsted plots, with .beta. decreasing as the leaving group is made less basic. Similarly, k2 correlated with the leaving group pKa, with |.beta.lg| decreasing with the stronger base. The results are consistent with an E2 mechanism; the substantial values of .beta. and |.beta.lg| rule out E1cb.

ACCESSION NUMBER: 1999:655305 CAPLUS
DOCUMENT NUMBER: 132:49664
TITLE: Elimination Reactions of (E)-2,4-Dinitrobenzaldehyde O-Benzoyloximes
AUTHOR(S): Cho, Bong Rae; Chung, Hack Sook; Pyun, Sang Yong
CORPORATE SOURCE: Department of Chemistry and Center for Electro- and Photo-Responsive Molecules, Korea University, Seoul, 136-701, S. Korea
SOURCE: Journal of Organic Chemistry (1999), 64(22), 8375-8378
CODEN: JOCEAH; ISSN: 0022-3263
PUBLISHER: American Chemical Society
DOCUMENT TYPE: Journal
LANGUAGE: English
IT **252929-76-3P 252929-77-4P 252929-78-5P 252929-79-6P**
RL: PEP (Physical, engineering or chemical process); PRP (Properties); RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); PROC (Process); RACT (Reactant or reagent)
(kinetics, mechanism, and transition state structure for elimination reaction of (E)-2,4-dinitrobenzaldehyde O-benzoyloximes)
RN 252929-76-3 CAPLUS
CN Benzaldehyde, 2,4-dinitro-, O-benzoyloxime, [C(E)]- (9CI) (CA INDEX NAME)

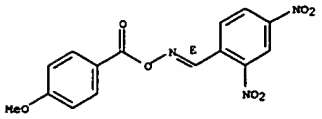
Double bond geometry as shown.



RN 252929-77-4 CAPLUS
CN Benzaldehyde, 2,4-dinitro-, O-(4-methoxybenzoyl)oxime, [C(E)]- (9CI) (CA INDEX NAME)

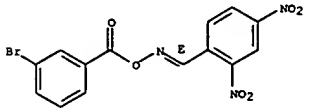
Double bond geometry as shown.

L11 ANSWER 6 OF 68 CAPLUS COPYRIGHT 2002 ACS (Continued)



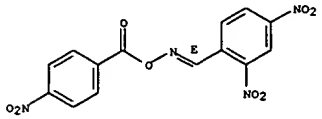
RN 252929-78-5 CAPLUS
CN Benzaldehyde, 2,4-dinitro-, O-(3-bromobenzoyl)oxime, [C(E)]- (9CI) (CA INDEX NAME)

Double bond geometry as shown.



RN 252929-79-6 CAPLUS
CN Benzaldehyde, 2,4-dinitro-, O-(4-nitrobenzoyl)oxime, [C(E)]- (9CI) (CA INDEX NAME)

Double bond geometry as shown.

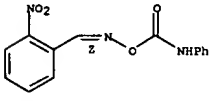


REFERENCE COUNT: 23 THERE ARE 23 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L11 ANSWER 7 OF 68 CAPLUS COPYRIGHT 2002 ACS
AB O-arylcarbamoylated hydroxylamine tosylate reacts with aldehydes at room temp. to give the corresponding O-carbamoylated oximes. The reaction of carbamoylated hydroxylamine with arom. aldehydes in THF or in toluene at reflux affords the corresponding nitriles and anilinium tosylate in high yield. Attempts to cyclize the O-carbamoylated oximes in the presence of AcCl lead again to the formation of nitriles.

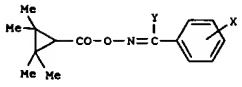
ACCESSION NUMBER: 1999:631975 CAPLUS
DOCUMENT NUMBER: 132:3107
TITLE: Direct conversion of aldehydes to nitriles via O-phenylcarbamoylated aldoximes
AUTHOR(S): Coskun, Necdet; Arikan, Nevin
CORPORATE SOURCE: Department of Chemistry, Uludag University, Bursa, 16059, Turk.
SOURCE: Tetrahedron (1999), 55(40), 11943-11948
CODEN: TETRAB; ISSN: 0040-4020
PUBLISHER: Elsevier Science Ltd.
DOCUMENT TYPE: Journal
LANGUAGE: English
OTHER SOURCE(S): CASREACT 132:3107
IT **250722-20-4P**
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)
(direct conversion of aldehydes to nitriles via O-phenylcarbamoylated aldoximes)
RN 250722-20-4 CAPLUS
CN Benzaldehyde, 2-nitro-, O-[(phenylamino)carbonyl]oxime, [C(Z)]- (9CI) (CA INDEX NAME)

Double bond geometry as shown.



REFERENCE COUNT: 12 THERE ARE 12 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

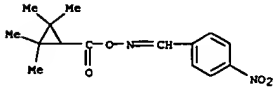
L11 ANSWER 8 OF 68 CAPLUS COPYRIGHT 2002 ACS
GI



I

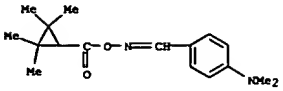
AB Twenty new substituted benzaldehyde oxime tetramethylcyclopropane carboxylates I ( X = H, 4-C6H5OC6H4, 4-CH3, 4-(CH3)2CH, 4-(CH3)3C, 4-Cl, 4-NO2, 4-NM2, 2-Cl-4-NMe2, 3,5-Cl2NMe2; Y = H, Cl, CN; etc.) were prepd. and tested as pesticides. The preliminary bioassays indicated that compds. I (X = 4-Me2N, 4-Et2N; Y = H) showed high insecticidal activity.

ACCESSION NUMBER: 1999:532271 CAPLUS
DOCUMENT NUMBER: 131:286241
TITLE: Synthesis and bioactivity of substituted benzaldehyde oxime carboxylates. (III) - Synthesis and bioactivity of substituted benzaldehyde oxime tetramethylcyclopropanecarboxylates
AUTHOR(S): Ma, Jun-An; Huang, Run-Qiu; Chai, You-Xin
CORPORATE SOURCE: Inst. State Key Elemento-organic Chemistry, Nankai Univ., Tianjin, 300071, Peop. Rep. China
SOURCE: Gaodeng Xuexiao Huaxue Xuebao (1999), 20(5), 747-749
CODEN: KTHPDM; ISSN: 0251-0790
PUBLISHER: Gaodeng Jiaoyu Chubanshe
DOCUMENT TYPE: Journal
LANGUAGE: Chinese
IT **246532-24-1P 246532-31-0P 246532-32-1P 246532-33-2P 246532-34-3P 246532-35-4P 246532-36-5P**
RL: AGR (Agricultural use); BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); SPN (Synthetic preparation); BIOL (Biological study); PREP (Preparation); USES (Uses)
(prepn. of O-tetramethylcyclopropanecarbonyl benzoyloximes as pesticides)
RN 246532-24-1 CAPLUS
CN Benzaldehyde, 4-nitro-, O-[(2,2,3,3-tetramethylcyclopropyl)carbonyl]oxime (9CI) (CA INDEX NAME)

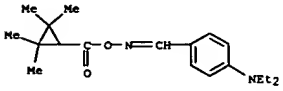


RN 246532-31-0 CAPLUS
CN Benzaldehyde, 4-(dimethylamino)-, O-[(2,2,3,3-tetramethylcyclopropyl)carbonyl]oxime (9CI) (CA INDEX NAME)

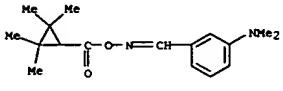
L11 ANSWER 8 OF 68 CAPLUS COPYRIGHT 2002 ACS (Continued)



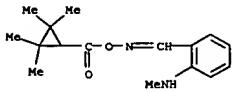
RN 246532-32-1 CAPLUS
CN Benzaldehyde, 4-(diethylamino)-, O-[(2,2,3,3-tetramethylcyclopropyl)carbonyl]oxime (9CI) (CA INDEX NAME)



RN 246532-33-2 CAPLUS
CN Benzaldehyde, 3-(dimethylamino)-, O-[(2,2,3,3-tetramethylcyclopropyl)carbonyl]oxime (9CI) (CA INDEX NAME)

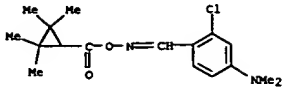


RN 246532-34-3 CAPLUS
CN Benzaldehyde, 2-(methylamino)-, O-[(2,2,3,3-tetramethylcyclopropyl)carbonyl]oxime (9CI) (CA INDEX NAME)

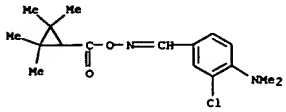


RN 246532-35-4 CAPLUS
CN Benzaldehyde, 2-chloro-4-(dimethylamino)-, O-[(2,2,3,3-tetramethylcyclopropyl)carbonyl]oxime (9CI) (CA INDEX NAME)

L11 ANSWER 8 OF 68 CAPLUS COPYRIGHT 2002 ACS (Continued)



RN 246532-36-5 CAPLUS
CN Benzaldehyde, 3-chloro-4-(dimethylamino)-, O-[(2,2,3,3-tetramethylcyclopropyl)carbonyl]oxime (9CI) (CA INDEX NAME)

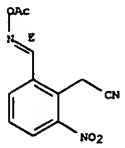


L11 ANSWER 9 OF 68 CAPLUS COPYRIGHT 2002 ACS

AB The N-alkyl- and N-arylisoquinolinium salts reacted with free NH2OH in pyridine to give isoquinoline 2-oxide as final product. The intermediate dioxime 2-HON:CHC6H4CH2CH:NOH (I) was isolated and characterized by derivatization with Ac2O to 2-AcON:CHC6H4CH2CN. From the reaction of I with (CF3CO)2O/Et3N, 3-aminoisoquinoline 2-oxide resulted after hydrolysis. Due to the electronic influence, N-alkylated 5-nitroisoquinolinium salts react faster than the resp. 5-hydroxy derivs., but with the same course of conversion via dioximes to amine oxides. An optimized method for prepn. of the amine oxides was developed.

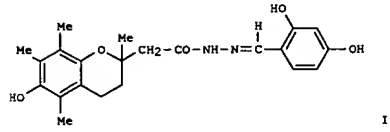
ACCESSION NUMBER: 1999:282639 CAPLUS
DOCUMENT NUMBER: 131:58739
TITLE: Reactions of isoquinolinium salts with hydroxylamine derivatives. 2nd communication. N-Alkyl- and N-aryl-substituted compounds
AUTHOR(S): Mohrle, H.; Niessen, R.
CORPORATE SOURCE: Inst. Pharmazeutische Chem., Heinrich-Heine-Univ., Dusseldorf, D-40225, Germany
SOURCE: Zeitschrift fuer Naturforschung, B: Chemical Sciences (1999), 54(4), 532-540
CODEN: ZNBSEN; ISSN: 0932-0776
PUBLISHER: Verlag der Zeitschrift fuer Naturforschung
DOCUMENT TYPE: Journal
LANGUAGE: German
OTHER SOURCE(S): CASREACT 131:58739
IT **227945-28-0P**
RL: SPN (Synthetic preparation); PREP (Preparation)
(prepn. of isoquinoline oxides from reaction of isoquinolinium salts with hydroxylamine)
RN 227945-28-0 CAPLUS
CN Benzeneacetonitrile, 2-[(E)-[(acetyloxy)imino]methyl]-6-nitro- (9CI) (CA INDEX NAME)

Double bond geometry as shown.



REFERENCE COUNT: 25 THERE ARE 25 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L11 ANSWER 10 OF 68 CAPLUS COPYRIGHT 2002 ACS
GI



I

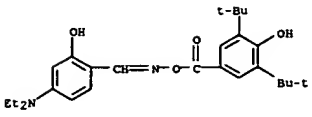
AB The title compds. XWY [X = benzene ring, chroman ring, etc.; Y = (un)substituted Ph, etc.; W = CONHN:CH, etc.] are prepd. The title compd.
I in vitro showed IC50 of 4.2 .mu.M against the Maillard reaction.

ACCESSION NUMBER: 1999:253739 CAPLUS
DOCUMENT NUMBER: 130:325088
TITLE: Preparation of acylhydrazone derivatives as Maillard reaction inhibitors and active oxygen scavengers
INVENTOR(S): Inoue, Hitoshi; Horigome, Masato; Kinoshita, Nobuhiro;
Shibayama, Toshie
PATENT ASSIGNEE(S): Nisshin Flour Milling Co., Ltd., Japan
SOURCE: Jpn. Kokai Tokkyo Koho, 80 pp.
CODEN: JKXXAF
DOCUMENT TYPE: Patent
LANGUAGE: Japanese
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

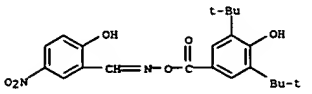
| PATENT NO. | KIND | DATE | APPLICATION NO. | DATE |
|---|---|---|---|---|
| JP 11106371 | A2 | 19990420 | JP 1998-177222 | 19980624 |

PRIORITY APPLN. INFO.: JP 1997-179754 19970704
OTHER SOURCE(S): MARPAT 130:325088
IT **223723-34-0P 223723-35-1P**
RL: BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)
(prepn. of acylhydrazone derivs. as Maillard reaction inhibitors and active oxygen scavengers)
RN 223723-34-0 CAPLUS
CN Benzaldehyde, 4-(diethylamino)-2-hydroxy-, O-[3,5-bis(1,1-dimethylethyl)-4-hydroxybenzoyl]oxime (9CI) (CA INDEX NAME)

L11 ANSWER 10 OF 68 CAPLUS COPYRIGHT 2002 ACS (Continued)

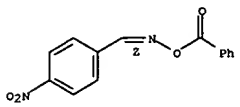


RN 223723-35-1 CAPLUS
CN Benzaldehyde, 2-hydroxy-5-nitro-, O-[3,5-bis(1,1-dimethylethyl)-4-hydroxybenzoyl]oxime (9CI) (CA INDEX NAME)



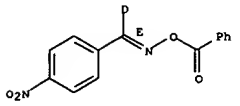
L11 ANSWER 11 OF 68 CAPLUS COPYRIGHT 2002 ACS
AB Elimination reactions of (E)- and (Z)-benzaldehyde O-benzoyloximes 1 and 2 with DBU in MeCN have been investigated kinetically. The reactions are second order and exhibit substantial values of Hammett .rho. and kH/kD values, and an E2 mechanism is evident. The rate of elimination from 2 is approx. 36000 fold faster than that from 1. For reactions of 1 with DBU in MeCN, kH/kD = 3.3 .+-. 0.2, Hammett .rho. value of 2.19 .+-. 0.05, .beta.lg = -0.49 .+-. 0.02, .DELTA.H.thermod. = 10.4 .+-. 0.6 kcal/mol, and .DELTA.S.thermod. = -34.3 .+-. 2.6 eu have been detd. The corresponding values for 2 are kH/kD = 7.3 .+-. 0.2, .rho. = 1.21 .+-. 0.05, .beta.lg = -0.40 .+-. 0.01, .DELTA.H.thermod. = 6.8 .+-. 0.5 kcal/mol, and .DELTA.S.thermod. = -25.8 .+-. 1.9 eu, resp. The results indicate that the anti-eliminations from 2 proceed via more sym. transition states with smaller degrees of proton transfer and N.alpha.-OC(O)Ar bond cleavage, less neg. charge development at the .beta.-carbon, and a greater extent of triple bond formation than that for the syn-elimination.
ACCESSION NUMBER: 1998:446769 CAPLUS
DOCUMENT NUMBER: 129:135759
TITLE: Elimination Reactions of (E)- and (Z)-Benzaldehyde O-Benzoyloximes. Transition State Differences for the Syn- and Anti-Eliminations Forming Nitriles
AUTHOR(S): Cho, Bong Rae; Chung, Hak Suk; Cho, Nam Soon
CORPORATE SOURCE: Department of Chemistry, Korea University, Seoul, 136-701, S. Korea
SOURCE: Journal of Organic Chemistry (1998), 63(14), 4685-4690
CODEN: JOCEAH; ISSN: 0022-3263
PUBLISHER: American Chemical Society
DOCUMENT TYPE: Journal
LANGUAGE: English
IT 18322-89-9P 210645-51-5P 210645-52-6P 210645-53-7P 210645-54-8P 210645-65-1P 210645-66-2P 210645-67-3P
RL: PEP (Physical, engineering or chemical process); PRP (Properties); RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); PROC (Process); RACT (Reactant or reagent)
(syn- and anti-elimination transition state differences for nitrile formation from (E)- and (Z)-benzaldehyde O-benzoyloximes)
RN 18322-89-9 CAPLUS
CN Benzaldehyde, 4-nitro-, O-benzoyloxime, [C(Z)]- (9CI) (CA INDEX NAME)

Double bond geometry as shown.



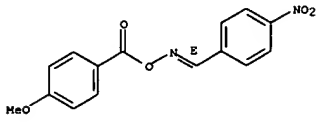
RN 210645-51-5 CAPLUS
CN Benzaldehyde-formyl-d, 4-nitro-, O-benzoyloxime, [C(E)]- (9CI) (CA INDEX NAME)

L11 ANSWER 11 OF 68 CAPLUS COPYRIGHT 2002 ACS (Continued)
Double bond geometry as shown.



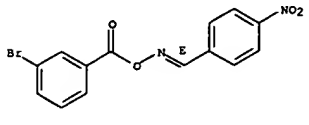
RN 210645-52-6 CAPLUS
CN Benzaldehyde, 4-nitro-, O-(4-methoxybenzoyl)oxime, [C(E)]- (9CI) (CA INDEX NAME)

Double bond geometry as shown.



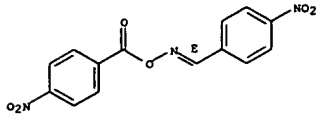
RN 210645-53-7 CAPLUS
CN Benzaldehyde, 4-nitro-, O-(3-bromobenzoyl)oxime, [C(E)]- (9CI) (CA INDEX NAME)

Double bond geometry as shown.



RN 210645-54-8 CAPLUS
CN Benzaldehyde, 4-nitro-, O-(4-nitrobenzoyl)oxime, [C(E)]- (9CI) (CA INDEX NAME)

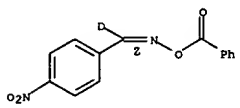
Double bond geometry as shown.



RN 210645-65-1 CAPLUS

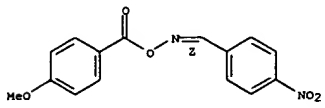
L11 ANSWER 11 OF 68 CAPLUS COPYRIGHT 2002 ACS (Continued)
CN Benzaldehyde-formyl-d, 4-nitro-, O-benzoyloxime, [C(Z)]- (9CI) (CA INDEX NAME)

Double bond geometry as shown.



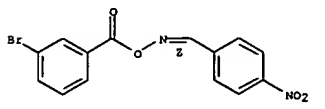
RN 210645-66-2 CAPLUS
CN Benzaldehyde, 4-nitro-, O-(4-methoxybenzoyl)oxime, [C(Z)]- (9CI) (CA INDEX NAME)

Double bond geometry as shown.

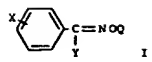


RN 210645-67-3 CAPLUS
CN Benzaldehyde, 4-nitro-, O-(3-bromobenzoyl)oxime, [C(Z)]- (9CI) (CA INDEX NAME)

Double bond geometry as shown.



L11 ANSWER 12 OF 68 CAPLUS COPYRIGHT 2002 ACS
GI



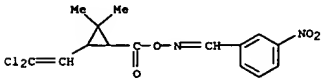
I

AB Twenty title pyrethroid oxime-esters I (X = 4-tert-Bu, 3,4-OCH2O, 2,4-Cl2,
3-NO2, 4-NMe2; Y = H, NMe2, NHEt, N(CH2)5, 1,2,4-triazol-1-yl, cyclohexylamino, C6H5NH, NH2, NEt2; Q as shown) were prepd. from t-BuOCl chloronation of I (Q = H; X = above) followed by condensation with QCl in the presence of Et3N. The bioassay indicated that compds. I (X = 4-tert-Bu, 4-NMe2; Y = H; Q as shown) showed antiviral activities and I (X
= 4-Cl; Y = H; Q as shown) showed antibacterial activity.

ACCESSION NUMBER: 1998:207620 CAPLUS
DOCUMENT NUMBER: 128:294898
TITLE: Synthesis and bioactivity of substituted benzaldoxime carboxylate. I. Synthesis and bioactivity of substituted benzaldoxime 3-(2,2-dichloroethenyl)-2,2-dimethyl cyclopropanecarboxylates
AUTHOR(S): Huang, Runqiu; Sun, Jianyu; Ma, Jun'an; Li, Huiying
CORPORATE SOURCE: Inst. Elemento-Organic Chem., Nankai Univ., Tianjin, 300071, Peop. Rep. China
SOURCE: Yingyong Huaxue (1998), 15(1), 9-12
CODEN: YIHUED; ISSN: 1000-0518
PUBLISHER: Yingyong Huaxue Bianji Weiyuanhui
DOCUMENT TYPE: Journal
LANGUAGE: Chinese

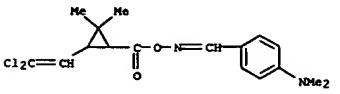
IT **205937-81-1P 205937-83-3P**
RL: AGR (Agricultural use); BAC (Biological activity or effector, except adverse); SPN (Synthetic preparation); BIOL (Biological study); PREP (Preparation); USES (Uses)
(synthesis and bioactivity of substituted benzaldoxime carboxylate derivs.)

RN 205937-81-1 CAPLUS
CN Benzaldehyde, 3-nitro-, O-[[3-(2,2-dichloroethenyl)-2,2-dimethylcyclopropyl]carbonyl]oxime (9CI) (CA INDEX NAME)



RN 205937-83-3 CAPLUS
CN Benzaldehyde, 4-(dimethylamino)-, O-[[3-(2,2-dichloroethenyl)-2,2-

L11 ANSWER 12 OF 68 CAPLUS COPYRIGHT 2002 ACS (Continued)
dimethylcyclopropyl]carbonyl]oxime (9CI) (CA INDEX NAME)



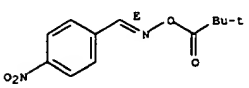
L11 ANSWER 13 OF 68 CAPLUS COPYRIGHT 2002 ACS
AB Elimination reactions of (E)-2,4-dinitrobenzaldehyde O-pivaloyloxime promoted by R2NH/R2NH2+ buffer in 70% MeCN(aq) have been studied kinetically. The reaction exhibited second order kinetics and general base catalysis with Bronsted .beta.=0.45. The Hammett .rho. value decreased from 2.3 to 1.6 as the base-solvent system was changed from DBU in MeCN to R2NH/R2NH2+ buffer in 70% MeCN(aq). From these results an E2 mechanism is proposed.

ACCESSION NUMBER: 1998:47440 CAPLUS
DOCUMENT NUMBER: 128:167060
TITLE: Mechanism of elimination from (E)-2,4-dinitrobenzaldehyde O-pivaloyloxime promoted by R2NH/R2NH2+ buffer in 70% MeCN (aq)
AUTHOR(S): Cho, Bong Rae; Cho, Nam Soon; Chung, Hak Suk; Son, Ki Nam; Han, Man So; Pyun, Sang Yong
CORPORATE SOURCE: Department of Chemistry, Korea University, Seoul, 136-701, S. Korea
SOURCE: Bulletin of the Korean Chemical Society (1997), 18(12), 1301-1304
CODEN: BKCSDE; ISSN: 0253-2964
PUBLISHER: Korean Chemical Society
DOCUMENT TYPE: Journal
LANGUAGE: English

IT **149540-92-1**
RL: PEP (Physical, engineering or chemical process); PRP (Properties); RCT
(Reactant); PROC (Process); RACT (Reactant or reagent)
(mechanism of elimination from (E)-2,4-dinitrobenzaldehyde O-pivaloyloxime promoted by R2NH/R2NH2+ buffer in 70% MeCN (aq))

RN 149540-92-1 CAPLUS
CN Benzaldehyde, 4-nitro-, O-(2,2-dimethyl-1-oxopropyl)oxime, (E)- (9CI) (CA
INDEX NAME)

Double bond geometry as shown.

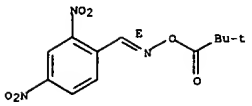


IT **203127-48-4P**
RL: PEP (Physical, engineering or chemical process); PRP (Properties); RCT
(Reactant); SPN (Synthetic preparation); PREP (Preparation); PROC (Process); RACT (Reactant or reagent)
(mechanism of elimination from (E)-2,4-dinitrobenzaldehyde O-pivaloyloxime promoted by R2NH/R2NH2+ buffer in 70% MeCN (aq))

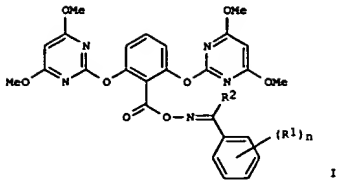
RN 203127-48-4 CAPLUS
CN Benzaldehyde, 2,4-dinitro-, O-(2,2-dimethyl-1-oxopropyl)oxime, (E)- (9CI) (CA INDEX NAME)

Double bond geometry as shown.

L11 ANSWER 13 OF 68 CAPLUS COPYRIGHT 2002 ACS (Continued)



L11 ANSWER 14 OF 68 CAPLUS COPYRIGHT 2002 ACS
GI



I

AB The title compds. I [R1 represents hydrogen, halogen, cyano, nitro, alkyl,
cycloalkyl, alkoxy, alkenyloxy, alkylthio, amino which can be substituted with alkyl, aryl, aryloxy, acyl or acyloxy; n denotes an integer of 1 to 5; and R2 represents hydrogen, halogen, cyano, nitro, alkyl, alkoxy, alkylthio, alkoxycarbonyl, alkenyloxycarbonyl, arylmethoxycarbonyl, heteroarylmethoxy carbonyl, alkylaminocarbonyl, di(alkyl)aminocarbonyl, arylmethylaminocarbonyl, heteroarylmethylaminocarbonyl, or Ph which can be
substituted with R1] are prepd. by reacting 2-(4,6-dimethoxypyrimidin-2-yl)oxy-6-hydroxybenzoic acid oxime ester derivs. with appropriate pyrimidine derivs., e.g., 4,6-dimethoxy-2-alkylsulfonylpyrimidine. Thus, a mixt. of 2-(4,6-dimethoxypyrimidin-2-yl)oxy-6-hydroxybenzoic acid benzophenone oxime ester, potassium carbonate, and 4,6-dimethoxy-2-methylsulfonylpyrimidine in DMF was stirred at 80.degree. to give, after workup, 2,6-di(4,6-dimethoxypyrimidin-2-yl)oxybenzoic acid benzophenone oxime ester.

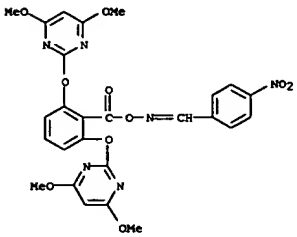
ACCESSION NUMBER: 1997:734617 CAPLUS
DOCUMENT NUMBER: 127:318973
TITLE: Process for preparing 2,6-di(4,6-dimethoxypyrimidin-2-yl)oxybenzoic acid oxime ester derivatives as herbicides
INVENTOR(S): Kim, Kun-Tai; Lee, Byoung-Bae; Joe, Goon-Ho; Ahn, Sei-Chang; Kang, Chang-Mo; Lee, Seong-Min; Bae, Jae-Soon; Cho, Jin-Ho; Lee, Sang-Ho; Choi, Nak-Hee; Sa, Jong-Sin
PATENT ASSIGNEE(S): Lg Chemical Ltd., S. Korea
SOURCE: Can. Pat. Appl., 65 pp.
CODEN: CPXXEB
DOCUMENT TYPE: Patent
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

| PATENT NO. | KIND | DATE | APPLICATION NO. | DATE |
|---|---|---|---|---|
| CA 2194080 | AA | 19970629 | CA 1996-2194080 | 19961227 |
| PRIORITY APPLN. INFO.: | | | KR 1995-61160 | 19951228 |

L11 ANSWER 14 OF 68 CAPLUS COPYRIGHT 2002 ACS (Continued)

| | | |
|---|---|---|
| | KR 1996-2737 | 19960205 |
| | KR 1996-43480 | 19961001 |

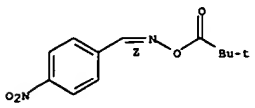
OTHER SOURCE(S): CASREACT 127:318973; MARPAT 127:318973
IT 168088-55-9P
RL: AGR (Agricultural use); IMF (Industrial manufacture); SPN (Synthetic preparation); BIOL (Biological study); PREP (Preparation); USES (Uses)
(process for prepg. herbicidal di[(dimethoxypyrimidinyl)oxy]benzoic acid oxime ester derivs.)
RN 168088-55-9 CAPLUS
CN Benzaldehyde, 4-nitro-, O-[2,6-bis[(4,6-dimethoxy-2-pyrimidinyl)oxy]benzoyl]oxime (9CI) (CA INDEX NAME)



L11 ANSWER 15 OF 68 CAPLUS COPYRIGHT 2002 ACS
AB Elimination reactions of (E)- and (Z)-benzaldehyde O-pivaloyloximes 1 and 2 with DBU in MeCN have been investigated kinetically. The reactions are second order and exhibit substantial values of Hammett .rho. and kH/kD values, and an E2 mechanism is evident. The rate of elimination from 2 is
approx. 20 000-fold faster than that from 1. For reactions of 1 with DBU in MeCN, a Hammett .rho. values of 2.4 .+-. 0.1, kH/kD = 2.7 .+-. 0.3, .DELTA.H.thermod. = 12.5 .+-. 0.2 kcal/mol, and .DELTA.S.thermod. = -31.0 .+-. 0.6 eu have been detd. The corresponding values for 2 are .rho. = 1.4 .+-. 0.1, kH/kD = 7.8 .+-. 0.3, .DELTA.H.thermod. = 8.8 .+-. 0.1 kcal/mol, and .DELTA.S.thermod. = -23.6 .+-. 0.4 eu, resp. The results indicate that the nitrile-forming anti eliminations from 2 proceed via a more sym. transition state with a smaller degree of proton transfer, less neg. charge development at the .beta.-carbon, and greater extent of triple-bond formation than that for the syn elimination.

ACCESSION NUMBER: 1997:231039 CAPLUS
DOCUMENT NUMBER: 126:263711
TITLE: Elimination Reactions of (E)- and (Z)-Benzaldehyde O-Pivaloyloximes. Transition-State Differences for the Syn and Anti Eliminations Forming Nitriles
AUTHOR(S): Cho, Bong Rae; Cho, Nam Soon; Lee, Sang Kook
CORPORATE SOURCE: Department of Chemistry, Korea University, Seoul, 136-701, S. Korea
SOURCE: J. Org. Chem. (1997), 62(7), 2230-2233
CODEN: JOCEAH; ISSN: 0022-3263
PUBLISHER: American Chemical Society
DOCUMENT TYPE: Journal
LANGUAGE: English
IT 188799-40-8P
RL: PEP (Physical, engineering or chemical process); PNU (Preparation, unclassified); PRP (Properties); RCT (Reactant); PREP (Preparation); PROC (Process)
(transition-state differences for syn and anti eliminations forming nitriles from (E)- and (Z)-benzaldehyde O-pivaloyloximes)
RN 188799-40-8 CAPLUS
CN Benzaldehyde, 4-nitro-, O-(2,2-dimethyl-1-oxopropyl)oxime, (Z)- (9CI) (CA INDEX NAME)

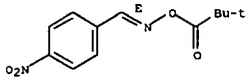
Double bond geometry as shown.



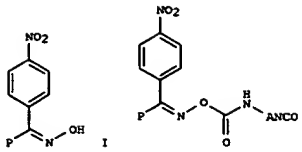
IT 149540-92-1
RL: PEP (Physical, engineering or chemical process); PRP (Properties); RCT (Reactant); PROC (Process)
(transition-state differences for syn and anti eliminations forming nitriles from (E)- and (Z)-benzaldehyde O-pivaloyloximes)
RN 149540-92-1 CAPLUS
CN Benzaldehyde, 4-nitro-, O-(2,2-dimethyl-1-oxopropyl)oxime, (E)- (9CI) (CA

L11 ANSWER 15 OF 68 CAPLUS COPYRIGHT 2002 ACS (Continued)
INDEX NAME)

Double bond geometry as shown.



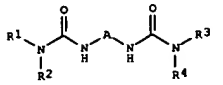
L11 ANSWER 16 OF 68 CAPLUS COPYRIGHT 2002 ACS
GI



I



II



III

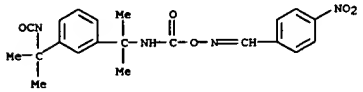
AB A general method for prepn. of bis[ureas] was developed from oxime resin-derived carbamates of diisocyanates. Thus, monoaddn. of diisocyanates a polymer-supported 4-nitrobenzaldehyde oxime I (P = polymer support) gave isocyanates II (P = polymer support; A = alkanediyl). Treatment of II with amines gave the alkanediylbis[ureas] III (R1-R4 = alkyl, cyclohexylmethyl, 4-morpholinyl, etc.). Directional urea synthesis was achieved by sequential amine addn. which demonstrated the utility of thermolabile oxime-derived carbamate linkages to a polymer support. The products, obtained in good yield in three steps, were of high chem. purity.

ACCESSION NUMBER: 1996:683459 CAPLUS
DOCUMENT NUMBER: 126:74337
TITLE: Diisocyanates as scaffolds for combinatorial libraries. The solid-phase synthesis of bis[ureas] from polymer-supported diisocyanates
AUTHOR(S): Scialdone, Mark A.
CORPORATE SOURCE: DuPont Central Res. and Development, Wilmington, DE, 19880-0328, USA
SOURCE: Tetrahedron Lett. (1996), 37(45), 8141-8144
CODEN: TELEAY; ISSN: 0040-4039
PUBLISHER: Elsevier
DOCUMENT TYPE: Journal
LANGUAGE: English

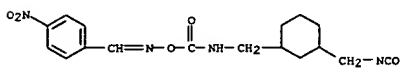
IT **185432-96-6DP**, polymer-supported **185432-97-7DP**, polymer-supported **185432-98-8DP**, polymer-supported **185432-99-9DP**, polymer-supported **185433-00-5DP**, polymer-supported **185433-01-6DP**, polymer-supported
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation)
(prepn. of alkanediylbis[ureas] from polymer-supported diisocyanates)

RN 185432-96-6 CAPLUS
CN Benzaldehyde, 4-nitro-, O-[[(6-isocyanatohexyl)amino]carbonyl]oxime (9CI) (CA INDEX NAME)

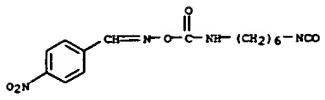
L11 ANSWER 16 OF 68 CAPLUS COPYRIGHT 2002 ACS (Continued)



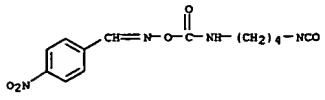
RN 185433-01-6 CAPLUS
CN Benzaldehyde, 4-nitro-, O-[[[[3-(isocyanatomethyl)cyclohexyl]methyl]amino]carbonyl]oxime (9CI) (CA INDEX NAME)



L11 ANSWER 16 OF 68 CAPLUS COPYRIGHT 2002 ACS (Continued)

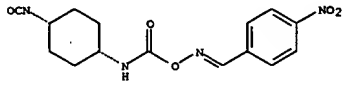


RN 185432-97-7 CAPLUS
CN Benzaldehyde, 4-nitro-, O-[[(4-isocyanatobutyl)amino]carbonyl]oxime (9CI) (CA INDEX NAME)

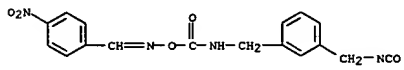


RN 185432-98-8 CAPLUS
CN Benzaldehyde, 4-nitro-, O-[[(4-isocyanatocyclohexyl)amino]carbonyl]oxime, cis- (9CI) (CA INDEX NAME)

Relative stereochemistry.
Double bond geometry unknown.



RN 185432-99-9 CAPLUS
CN Benzaldehyde, 4-nitro-, O-[[[[3-(isocyanatomethyl)phenyl]methyl]amino]carbonyl]oxime (9CI) (CA INDEX NAME)



RN 185433-00-5 CAPLUS
CN Benzaldehyde, 4-nitro-, O-[[[1-[3-(1-isocyanato-1-methylethyl)phenyl]-1-methylethyl]amino]carbonyl]oxime (9CI) (CA INDEX NAME)

L11 ANSWER 17 OF 68 CAPLUS COPYRIGHT 2002 ACS
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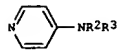


IV

AB R1CH:NOC(O)OR4 [I; R1 = acyl, (substituted) hydrocarbyl, (substituted) heterocyclyl; R4 = alkyl, alkenyl, aralkyl] are prepd. by reaction of R1CH:NOH (II; R1 = same as I) with R4OC(O)OC(O)OR4 (III; R4 = same as I) in presence of 0.01-5 mol.% (based on II) aminopyridines IV (R2, R3 = alkyl, aryl; R2R3 may form ring). II (R1 = Ph) was treated with III (R4 = CMe3) and IV (R2 = R3 = Me) in CH2Cl2 at 20.degree. for 8 h to give 97.7% I (R1 = Ph, R4 = CMe3).

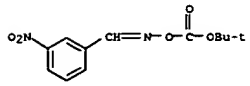
ACCESSION NUMBER: 1996:523557 CAPLUS
DOCUMENT NUMBER: 125:167339
TITLE: Preparation of aldoxime carbonates
INVENTOR(S): Iwasaki, Fumiaki; Mitsuharu, Michiko
PATENT ASSIGNEE(S): Tokuyama Corp, Japan
SOURCE: Jpn. Kokai Tokkyo Koho, 6 pp.
CODEN: JKXXAF
DOCUMENT TYPE: Patent
LANGUAGE: Japanese
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

| PATENT NO. | KIND | DATE | APPLICATION NO. | DATE |
|---|---|---|---|---|
| JP 08151357 | A2 | 19960611 | JP 1994-291593 | 19941125 |

OTHER SOURCE(S): CASREACT 125:167339; MARPAT 125:167339

IT **180308-36-5P**
RL: IMF (Industrial manufacture); SPN (Synthetic preparation); PREP (Preparation)
(prepn. of aldoxime carbonates from aldoximes and dicarbonates with aminopyridine catalysts)

RN 180308-36-5 CAPLUS
CN Benzaldehyde, 3-nitro-, O-[(1,1-dimethylethoxy)carbonyl]oxime (9CI) (CA INDEX NAME)



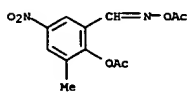
L11 ANSWER 18 OF 68 CAPLUS COPYRIGHT 2002 ACS

AB Optically active salicyloxazolines were obtained by condensation of salicylcarboximidates with chiral aminoalcs. In the enantioselective copper-catalyzed cyclopropanation of styrene with Et diazoacetate optical inductions up to 60% ee were achieved with these ligands. An example ligand is (4S-cis)-4,5-dihydro-2-(2-hydroxyphenyl)-5-phenyl-4-oxazolemethanol. Low asym. induction was obtained with 2-{[[1-(hydroxymethyl)propyl]imino]methyl}phenol as ligand.

ACCESSION NUMBER: 1995:847417 CAPLUS
DOCUMENT NUMBER: 124:86845
TITLE: Enantioselective catalysis. 971. Optically active salicyloxazoline ligands in enantioselective copper-catalyzed cyclopropanation reactions
AUTHOR(S): Brunner, Henri; Berghofer, Josef
CORPORATE SOURCE: Institut fuer Anorganische Chemie, Universitaet Regensburg, Universitaetsstrasse 31, Regensburg, 93053, Germany
SOURCE: J. Organomet. Chem. (1995), 501(1-2), 161-6
CODEN: JORCAI; ISSN: 0022-328X
DOCUMENT TYPE: Journal
LANGUAGE: English
OTHER SOURCE(S): CASREACT 124:86845

IT 172532-29-5
RL: RCT (Reactant)
(chiral (hydroxyphenyl)oxazolemethanols as ligands for copper-catalyzed cyclopropanation)

RN 172532-29-5 CAPLUS
CN Benzaldehyde, 2-(acetyloxy)-3-methyl-5-nitro-, 1-(O-acetyloxime) (9CI) (CA INDEX NAME)



L11 ANSWER 19 OF 68 CAPLUS COPYRIGHT 2002 ACS

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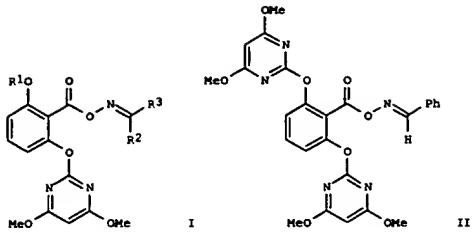


AB The invention relates to novel herbicidal pyrimidine derivs. I [R1 = 4,6-dimethoxy-2-pyrimidinyl, C1-4 alkyl, C2-4 alkenyl, acyl, alkylsulfonyl or heteroarylmethyl; R2 = H, halo, cyano, NO2, C1-8 alkyl, C1-8 alkoxy, C1-8 alkythio, C1-8 alkoxycarbonyl, C2-4 alkenyloxycarbonyl, (hetero)arylmethoxycarbonyl, C1-4 alkylaminocarbonyl, aryl-C1-4 alkylaminocarbonyl, heteroarylmethylaminocarbonyl, aryl, C2-8 alkenyl, C3-6 cycloalkyl, PhCH2, aryloxy, arylthio, or C1-8 alkylcarbonyl; R3 = (un)substituted Ph, COR4; R4 = H, C1-4 alkyl, C2-4 alkenyl, C3-6 cycloalkyl, PhCH2, aryl, C1-4 alkoxy, C2-4 alkenyloxy, C3-6 cycloalkoxy, PhCH2O, aryloxy, C1-4 alkythio, C2-4 alkenylthio, C3-6 cycloalkylthio, PhCH2S, arythio, amino which can be substituted with C1-C4 alkyl or aryl or arylmethyl], as well as a process for their prepn., and their herbicidal compns. I have excellent activity against both narrow- and broadleaf weeds, with increased safety for crops (esp. directly sown rice). For example, 2,6-bis(4,6-dimethoxypyrimidin-2-yl)oxybenzoic acid was treated with 2,2'-dipyridyl disulfide and PPh3 in PhMe to give 90% of the corresponding 2-pyridyl thioester, which reacted with benzaldehyde oxime in CH2Cl2 in the presence of CuBr2 to give 85% title compd. II. At 63 g/ha postemergence under paddy field conditions, II gave complete control of 7 weeds with no damage to direct-sown rice seedlings. Characterizing phys. and herbicidal data for 73 compds. are given.

ACCESSION NUMBER: 1995:810566 CAPLUS
DOCUMENT NUMBER: 123:228208
TITLE: Pyrimidine derivatives, process for their preparation, and their use as herbicides.
INVENTOR(S): Hur, Chang Uk; Cho, Jin Ho; Hong, Su Myeong; Kim, Hong Woo; Lim, Young Hee; Rim, Jae Suk; Kim, Jeong Su; Chae, Sang Heon
PATENT ASSIGNEE(S): Lucky Ltd., S. Korea
SOURCE: Eur. Pat. Appl., 54 pp.
CODEN: EPXXDW
DOCUMENT TYPE: Patent
LANGUAGE: English

L11 ANSWER 19 OF 68 CAPLUS COPYRIGHT 2002 ACS (Continued)

FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

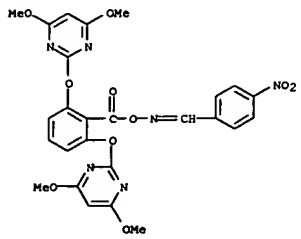
| PATENT NO. | KIND | DATE | APPLICATION NO. | DATE |
|---|---|---|---|---|
| EP 658549 | A1 | 19950621 | EP 1994-117857 | 19941111 |
| EP 658549 | B1 | 20010523 | | |
| R: CH, DE, FR, GB, LI, NL | | | | |
| KR 9701480 | B1 | 19970206 | KR 1993-24099 | 19931113 |
| KR 120271 | B1 | 19971104 | KR 1993-30055 | 19931227 |
| KR 120270 | B1 | 19971104 | KR 1993-31016 | 19931229 |
| US 5521146 | A | 19960528 | US 1994-339249 | 19941110 |
| BR 9404436 | A | 19951017 | BR 1994-4436 | 19941111 |
| CN 1111623 | A | 19951115 | CN 1994-117926 | 19941111 |
| CN 1043885 | B | 19990630 | | |
| AU 9478812 | A1 | 19950608 | AU 1994-78812 | 19941114 |
| AU 673629 | B2 | 19961114 | | |
| JP 07196629 | A2 | 19950801 | JP 1994-279506 | 19941114 |
| JP 2517215 | B2 | 19960724 | | |

PRIORITY APPLN. INFO.: KR 1993-24099 A 19931113
KR 1993-30055 A 19931227
KR 1993-31016 A 19931229

OTHER SOURCE(S): CASREACT 123:228208; MARPAT 123:228208

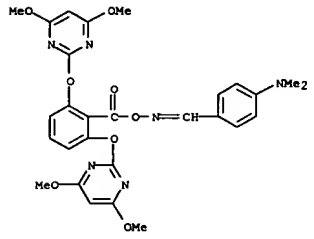
IT 168088-55-9P 168088-63-9P
RL: AGR (Agricultural use); BAC (Biological activity or effector, except adverse); SPN (Synthetic preparation); BIOL (Biological study); PREP (Preparation); USES (Uses)
(prepn. of pyrimidine derivs. as herbicides)

RN 168088-55-9 CAPLUS
CN Benzaldehyde, 4-nitro-, O-[2,6-bis[(4,6-dimethoxy-2-pyrimidinyl)oxy]benzoyl]oxime (9CI) (CA INDEX NAME)



RN 168088-63-9 CAPLUS
CN Benzaldehyde, 4-(dimethylamino)-, O-[2,6-bis[(4,6-dimethoxy-2-pyrimidinyl)oxy]benzoyl]oxime (9CI) (CA INDEX NAME)

L11 ANSWER 19 OF 68 CAPLUS COPYRIGHT 2002 ACS (Continued)



L11 ANSWER 20 OF 68 CAPLUS COPYRIGHT 2002 ACS
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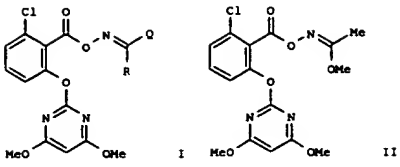


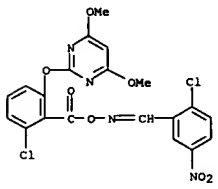
AB New 6-chloro-2-[(4,6-dimethoxy-2-pyrimidinyl)oxy]benzoates [(2-[[(alkyeneamino)oxy]carbonyl]-1-chloro-3-phenoxy]pyrimidines] I (R = H, halo, cyano, etc.; Q = alkyl, alkenyl, cycloalkyl, etc.) were disclosed. I were claimed as herbicides. An example compd. 2-[1-chloro-[[[(1-methoxyethylidene)amino]oxy]carbonyl]phenoxy]-4,6-dimethoxypyrimidine (II) was prepd.

ACCESSION NUMBER: 1994:605344 CAPLUS
DOCUMENT NUMBER: 121:205344
TITLE: Novel 6-chloro-2-(4,6-dimethoxypyrimidin-2-yl) oxybenzoic acid ester derivatives, processes for their production and their application as herbicides.
INVENTOR(S): Hur, Chang Uk; Cho, Jin Ho; Lee, Ho Seong; Yoo, Sang Ku; Hong, Su Myeong; Kim, Hong Woo; Rim, Jae Suk; Bae, Yeong Tae; Chae, Sand Heon; et al.
PATENT ASSIGNEE(S): Lucky Ltd., S. Korea
SOURCE: Eur. Pat. Appl., 82 pp.
CODEN: EPXXDW
DOCUMENT TYPE: Patent
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

| PATENT NO. | KIND | DATE | APPLICATION NO. | DATE |
|---|---|---|---|---|
| EP 608862 | A1 | 19940803 | EP 1994-101132 | 19940126 |
| R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IE, IT, LI, LU, MC, NL, PT, SE | | | | |
| KR 9603323 | B1 | 19960308 | KR 1993-1017 | 19930127 |
| KR 9612180 | B1 | 19960916 | KR 1993-10097 | 19930604 |
| KR 9612179 | B1 | 19960916 | KR 1993-10098 | 19930604 |
| KR 9612181 | B1 | 19960916 | KR 1993-10099 | 19930604 |
| KR 9612194 | B1 | 19960916 | KR 1993-10100 | 19930604 |
| KR 9612195 | B1 | 19960916 | KR 1993-10101 | 19930604 |
| CN 1101345 | A | 19950412 | CN 1994-102665 | 19940126 |
| US 5494888 | A | 19960227 | US 1994-186589 | 19940126 |
| BR 9400365 | A | 19940816 | BR 1994-365 | 19940127 |
| JP 07149735 | A2 | 19950613 | JP 1994-7824 | 19940127 |
| JP 2543665 | B2 | 19961016 | | |

PRIORITY APPLN. INFO.: KR 1993-1017 A 19930127

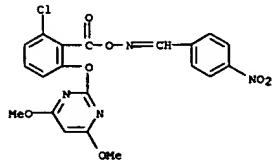
L11 ANSWER 20 OF 68 CAPLUS COPYRIGHT 2002 ACS (Continued)



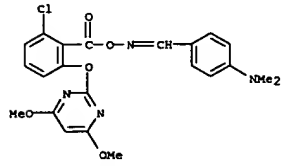
L11 ANSWER 20 OF 68 CAPLUS COPYRIGHT 2002 ACS (Continued)

| | | | |
|---|---|---|---|
| KR 1993-10097 | A | 19930604 | |
| KR 1993-10098 | A | 19930604 | |
| KR 1993-10099 | A | 19930604 | |
| KR 1993-10100 | A | 19930604 | |
| KR 1993-10101 | A | 19930604 | |

OTHER SOURCE(S): MARPAT 121:205344
IT 157990-17-5P 157990-18-6P 157990-32-4P
RL: AGR (Agricultural use); BAC (Biological activity or effector, except adverse); SPN (Synthetic preparation); BIOL (Biological study); PREP (Preparation); USES (Uses)
(prepn. of, as herbicide)
RN 157990-17-5 CAPLUS
CN Benzaldehyde, 4-nitro-, O-[2-chloro-6-[(4,6-dimethoxy-2-pyrimidinyl)oxy]benzoyl]oxime (9CI) (CA INDEX NAME)



RN 157990-18-6 CAPLUS
CN Benzaldehyde, 4-(dimethylamino)-, O-[2-chloro-6-[(4,6-dimethoxy-2-pyrimidinyl)oxy]benzoyl]oxime (9CI) (CA INDEX NAME)

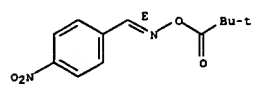


RN 157990-32-4 CAPLUS
CN Benzaldehyde, 2-chloro-5-nitro-, O-[2-chloro-6-[(4,6-dimethoxy-2-pyrimidinyl)oxy]benzoyl]oxime (9CI) (CA INDEX NAME)

L11 ANSWER 21 OF 68 CAPLUS COPYRIGHT 2002 ACS
AB Elimination reactions of (E)-O-pivaloylbenzaldoximes promoted by Et3N-MeCN, tert-BuOK-tert-BuOH, and tert-BuOK-DMSO have been studied kinetically. The reactions produce benzonitrile quant. The reactions are second-order and exhibit substantial values of .alpha., .beta., and kH/kD, and an E2 mechanism is evident. The relative rates of elimination from (E)-O-pivaloylbenzaldoxime were 1, 14.8, and 4.31 .times. 104 for the above systems, resp. The kH/kD value increased, but the Hammett .rho. value increased and then decreased, with this change in the base-solvent system. These results are compared with the predictions of the More O'Ferrall-Jencks reaction coordinate diagram to assess its scope and limitations in the interpretation of the elimination reactions.

ACCESSION NUMBER: 1993:516591 CAPLUS
DOCUMENT NUMBER: 119:116591
TITLE: Elimination reactions of (E)-O-pivaloylbenzaldoximes
AUTHOR(S): Cho, Bong Rae; Jang, Wan Jin; Je, Jong Tae; Bartsch, Richard A.
CORPORATE SOURCE: Dep. Chem., Korea Univ., Seoul, S. Korea
SOURCE: J. Org. Chem. (1993), 58(15), 3901-4
CODEN: JOCEAH; ISSN: 0022-3263
DOCUMENT TYPE: Journal
LANGUAGE: English
IT 149540-92-1
RL: RCT (Reactant)
(elimination reaction of, kinetics of)
RN 149540-92-1 CAPLUS
CN Benzaldehyde, 4-nitro-, O-(2,2-dimethyl-1-oxopropyl)oxime, (E)- (9CI) (CA INDEX NAME)

Double bond geometry as shown.



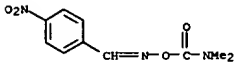
L11 ANSWER 22 OF 68 CAPLUS COPYRIGHT 2002 ACS

AB Thermal decompn. of syn-RCH:NOCONMe2 [I: R = 2-pyridyl, 4-C6H4NO2, Ph, 4-C6H4NMe2, 2,4- or 2,5-C6H3(OMe)2, 2-methyl- or 2-methoxy-4-dimethylaminophenyl, 2-methoxy-1-naphthyl] and syn-RCH:NOBz [II: R = Ph, 4-C6H4OMe, 2,4-C6H3(OMe)2, 2- or 4-methoxy-1-naphthyl, 1,5-C10H6SO2NEt2, 2-benzyloxy-1-naphthyl] at 80-130.degree. was kinetically studied. The decompn. was 1st-order for both I and II, and electron donating groups and substituents at the ortho position increased the reaction rates. Activation entropy values for I and II were very different and, hence, different decompn. mechanisms were proposed: .beta.-elimination with syn/anti isomerization for I and concerted elimination via a cyclic 6-membered ring transition for II.

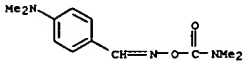
ACCESSION NUMBER: 1992:469340 CAPLUS
DOCUMENT NUMBER: 117:69340
TITLE: Reaction control of thermal decomposition of aromatic aldoxime derivatives as heat decomposing precursor compounds
AUTHOR(S): Kawata, Ken; Kitaguchi, Hiroshi; Sato, Kozo; Yabuki, Yoshiharu
CORPORATE SOURCE: Ashigara Res. Lab., Fuji Photo Film Co., Ltd., Kanagawa, 250-01, Japan
SOURCE: Senryo to Yakuhin (1992), 37(2), 33-40
CODEN: SETYAL; ISSN: 0370-9671
DOCUMENT TYPE: Journal
LANGUAGE: Japanese

IT **93369-36-9 93369-38-1 95186-87-1 142554-04-9**
RL: PRP (Properties); RCT (Reactant)
(thermal decompn. of, kinetics of, substituent effect and mechanism in relation to)

RN 93369-36-9 CAPLUS
CN Benzaldehyde, 4-nitro-, O-[(dimethylamino)carbonyl]oxime (9CI) (CA INDEX NAME)

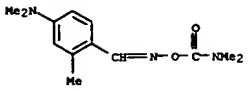


RN 93369-38-1 CAPLUS
CN Benzaldehyde, 4-(dimethylamino)-, O-[(dimethylamino)carbonyl]oxime (9CI) (CA INDEX NAME)

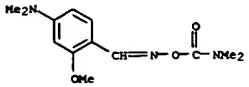


RN 95186-87-1 CAPLUS
CN Benzaldehyde, 4-(dimethylamino)-2-methyl-, O-[(dimethylamino)carbonyl]oxime (9CI) (CA INDEX NAME)

L11 ANSWER 22 OF 68 CAPLUS COPYRIGHT 2002 ACS (Continued)



RN 142554-04-9 CAPLUS
CN Benzaldehyde, 4-(dimethylamino)-2-methoxy-, O-[(dimethylamino)carbonyl]oxime (9CI) (CA INDEX NAME)



L11 ANSWER 23 OF 68 CAPLUS COPYRIGHT 2002 ACS

GI For diagram(s), see printed CA Issue.

AB The title materials contain a thermally decolorizable dye I or II [R, R1 = aryl, heteroaryl, R and R1 may form a ring; R2 = alkyl, alkenyl, aralkyl, aryl, heteroaryl; A = 5- or 6-membered ring; (all the groups, rings, and the benzoquinone ring of II may be substituted; X- = monovalent anion). The materials provide decolored images on heating. Thus, a poly(ethylene terephthalate) film was coated with a heat-sensitive layer contg. III to give a blue thermal recording film.

ACCESSION NUMBER: 1991:52979 CAPLUS
DOCUMENT NUMBER: 114:52979
TITLE: Recording materials using thermally decolorizable dyes
INVENTOR(S): Sato, Kozo
PATENT ASSIGNEE(S): Fuji Photo Film Co., Ltd., Japan
SOURCE: Jpn. Kokai Tokkyo Koho, 9 pp.
CODEN: JKXXAF
DOCUMENT TYPE: Patent
LANGUAGE: Japanese
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

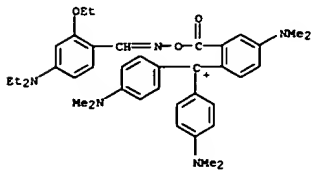
| PATENT NO. | KIND | DATE | APPLICATION NO. | DATE |
|---|---|---|---|---|
| JP 02164590 | A2 | 19900625 | JP 1988-320164 | 19881219 |
| JP 07084104 | B4 | 19950913 | | |
| US 4981833 | A | 19910101 | US 1989-452650 | 19891219 |
| PRIORITY APPLN. INFO.: | | | JP 1988-320164 | 19881219 |

IT **131420-03-6P**
RL: PREP (Preparation)
(prepn. of, thermally decolorizable dye, thermal recording material using)

RN 131420-03-6 CAPLUS
CN Methylium, [2-[[[[[4-(diethylamino)-2-ethoxyphenyl]methylene]amino]oxy]carbonyl]-4-(dimethylamino)phenyl]bis[4-(dimethylamino)phenyl]-, tetrafluoroborate(1-) (9CI) (CA INDEX NAME)

CM 1

CRN 131420-02-5
CMF C39 H48 N5 O3

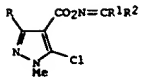


CM 2

L11 ANSWER 23 OF 68 CAPLUS COPYRIGHT 2002 ACS (Continued)

CRN 14874-70-5
CMF B F4
CCI CCS

L11 ANSWER 24 OF 68 CAPLUS COPYRIGHT 2002 ACS
GI

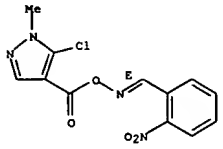


I

AB A series of novel 1,3-substituted 5-chloropyrazole-4-carboxylic acid oxime
esters I (R = H, Me; R1 = H, Me, Et; R2 = Ph, Me, substituted Ph; R1R2 = cyclohexylidene) was synthesized. Their chem. structures were elucidated by 1H, 13C-NMR and IR spectra. Fifteen such compds. were screened for their antifungal activity. The results showed that pyrazole oxime esters with electron withdrawing groups had better biol. activities than those with electron releasing groups.

ACCESSION NUMBER: 1991:23855 CAPLUS
DOCUMENT NUMBER: 114:23855
TITLE: Synthesis and antifungal activity of 1,3-substituted 5-chloropyrazole-4-carboxylic acid oxime esters
AUTHOR(S): Khim, Yong Whan; Park, Chi Hyun; Choi, Weon Seok; Kwon, Young Chil; Park, Chang Kyu
CORPORATE SOURCE: OCI Res. Cent., Inchon, S. Korea
SOURCE: Han'guk Nonghwa Hakhoechi (1989), 32(4), 401-7
CODEN: JKACA7; ISSN: 0368-2897
DOCUMENT TYPE: Journal
LANGUAGE: Korean
IT **131141-96-3P 131142-06-8P**
RL: BAC (Biological activity or effector, except adverse); SPN (Synthetic preparation); BIOL (Biological study); PREP (Preparation)
(prepn. and fungicidal activity of)
RN 131141-96-3 CAPLUS
CN Benzaldehyde, 2-nitro-, O-[(5-chloro-1-methyl-1H-pyrazol-4-yl)carbonyl]oxime, (E)- (9CI) (CA INDEX NAME)

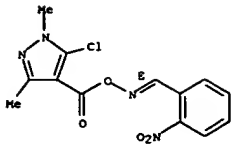
Double bond geometry as shown.



RN 131142-06-8 CAPLUS
CN Benzaldehyde, 2-nitro-, O-[(5-chloro-1,3-dimethyl-1H-pyrazol-4-yl)carbonyl]oxime, (E)- (9CI) (CA INDEX NAME)

Double bond geometry as shown.

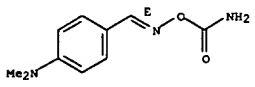
L11 ANSWER 24 OF 68 CAPLUS COPYRIGHT 2002 ACS (Continued)



L11 ANSWER 25 OF 68 CAPLUS COPYRIGHT 2002 ACS
AB The 1H and 13C NMR spectra were assigned for a series of O-carbamoyloximes
of ortho- and para-substituted benzaldehyde. These compds. exist exclusively in the E configuration. The arom. protons and carbons show correlations with the appropriate substituent-induced shifts and with Hammett parameters.

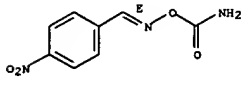
ACCESSION NUMBER: 1990:405571 CAPLUS
DOCUMENT NUMBER: 113:5571
TITLE: Proton and carbon-13 NMR studies of some O-carbamoyloximes
AUTHOR(S): Wazeer, Mohammed I. M.; Ali, S. A.; Arab, Mohammed
CORPORATE SOURCE: Chem. Dep., King Fahd Univ. Pet. Miner., Dhahran, 31261, Saudi Arabia
SOURCE: Magn. Reson. Chem. (1989), 27(11), 1102-4
CODEN: MRCHEG; ISSN: 0749-1581
DOCUMENT TYPE: Journal
LANGUAGE: English
IT **127479-16-7 127479-17-8**
RL: PRP (Properties)
(proton and carbon-13 NMR of)
RN 127479-16-7 CAPLUS
CN Benzaldehyde, 4-(dimethylamino)-, O-(aminocarbonyl)oxime, (E)- (9CI) (CA INDEX NAME)

Double bond geometry as shown.



RN 127479-17-8 CAPLUS
CN Benzaldehyde, 4-nitro-, O-(aminocarbonyl)oxime, (E)- (9CI) (CA INDEX NAME)

Double bond geometry as shown.

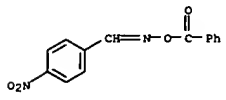


L11 ANSWER 26 OF 68 CAPLUS COPYRIGHT 2002 ACS
AB A photothermog. material has .gtoreq.1 shielding layers which temporarily shield acid activity. The shielding layers may contain a fusible agent or
a substance which is dissolved in or expanded with the fusible agent under
heat-developing temp. The photothermog. material shows improved heat-developing stability and storage stability.

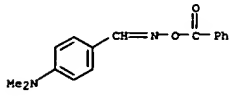
ACCESSION NUMBER: 1988:501932 CAPLUS
DOCUMENT NUMBER: 109:101932
TITLE: Photothermographic material with improved heat-developing stability and storage stability
INVENTOR(S): Goto, Sohei; Komamura, Tawara; Kono, Junichi
PATENT ASSIGNEE(S): Konica Co., Japan
SOURCE: Jpn. Kokai Tokkyo Koho, 45 pp.
CODEN: JKXXAF
DOCUMENT TYPE: Patent
LANGUAGE: Japanese
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

| PATENT NO. | KIND | DATE | APPLICATION NO. | DATE |
|---|---|---|---|---|
| JP 63004233 | A2 | 19880109 | JP 1986-147284 | 19860624 |
| JP 08012412 | B4 | 19960207 | | |

IT **3848-35-9 4058-69-9**
RL: USES (Uses)
(acid precursor, fusible agent contg., for photothermog. material)
RN 3848-35-9 CAPLUS
CN Benzaldehyde, 4-nitro-, O-benzoyloxime (9CI) (CA INDEX NAME)



RN 4058-69-9 CAPLUS
CN Benzaldehyde, 4-(dimethylamino)-, O-benzoyloxime (9CI) (CA INDEX NAME)



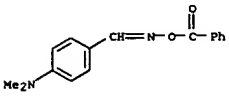
L11 ANSWER 27 OF 68 CAPLUS COPYRIGHT 2002 ACS

AB A photothermog. material comprising a support, photosensitive Ag halide, color-formers, a reducing agent, a binder, and microcapsules is claimed wherein the microcapsule core material contains an acid and/or an acid-precursor. The material retains high contrast even after prolonged storage.

ACCESSION NUMBER: 1988:430203 CAPLUS
DOCUMENT NUMBER: 109:30203
TITLE: Photothermographic material containing microencapsulated acid(-precursor) for improved storage stability
INVENTOR(S): Okauchi, Ken; Kakuchi, Hiroyuki; Yamazaki, Hiroshi
PATENT ASSIGNEE(S): Konica Co., Japan
SOURCE: Jpn. Kokai Tokkyo Koho, 45 pp.
CODEN: JKXXAF
DOCUMENT TYPE: Patent
LANGUAGE: Japanese
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

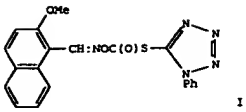
| PATENT NO. | KIND | DATE | APPLICATION NO. | DATE |
|---|---|---|---|---|
| JP 62288837 | A2 | 19871215 | JP 1986-132473 | 19860607 |
| JP 05079977 | B4 | 19931105 | | |

IT 4058-69-9
RL: USES (Uses)
(photothermog. material contg. microcapsules of, for improved storage stability)
RN 4058-69-9 CAPLUS
CN Benzaldehyde, 4-(dimethylamino)-, O-benzoyloxime (9CI) (CA INDEX NAME)



L11 ANSWER 28 OF 68 CAPLUS COPYRIGHT 2002 ACS

GI



I

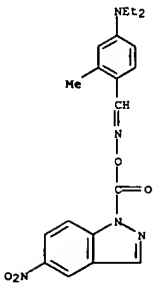
AB A Ag halide photog. material having .gtoreq.1 light-sensitive Ag halide emulsion layer contains .gtoreq.1 photog. reagent precursor of the formula R1CH:NOCY(LX)mTn(PUG) (R1 = H, other monovalent substituent; Y = O, NR2; R2 = substituent; L = bivalent linkage group; X = electron-attracting center; T = timing group; PUG = photog. useful group having O, N or cyclic structure; n, m = 0, 1). The precursor, which is quite stable during storage of the material, releases the photog. reagent at an appropriate time during its development. It is esp. useful for development at low pH, e.g. 9-12, and for dry thermal processing. Thus, development inhibitor precursor I was added to the emulsion layer of an exptl. monocolor photog. film as a coupler/precursor codispersion. Upon exposure and then development by a normal color neg. process, it produced a remarkable redn. in fog without affecting speed or contrast.

ACCESSION NUMBER: 1988:177038 CAPLUS
DOCUMENT NUMBER: 108:177038
TITLE: Timing precursor in silver halide photographic material
INVENTOR(S): Ito, Isamu; Kawada, Ken
PATENT ASSIGNEE(S): Fuji Photo Film Co., Ltd., Japan
SOURCE: Jpn. Kokai Tokkyo Koho, 14 pp.
CODEN: JKXXAF
DOCUMENT TYPE: Patent
LANGUAGE: Japanese
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

| PATENT NO. | KIND | DATE | APPLICATION NO. | DATE |
|---|---|---|---|---|
| JP 62163051 | A2 | 19870718 | JP 1986-4290 | 19860114 |
| JP 07062757 | B4 | 19950705 | | |

IT 114040-47-0P
RL: PREP (Preparation)
(prepn. of, as timing photog. development inhibitor precursor)
RN 114040-47-0 CAPLUS
CN Benzaldehyde, 4-(diethylamino)-2-methyl-, O-[(5-nitro-1H-indazol-1-yl)carbonyl]oxime (9CI) (CA INDEX NAME)

L11 ANSWER 28 OF 68 CAPLUS COPYRIGHT 2002 ACS (Continued)



L11 ANSWER 29 OF 68 CAPLUS COPYRIGHT 2002 ACS

GI For diagram(s), see printed CA Issue.

AB Oxime esters I [X = H, alkyl, halo; Z = H, Me; R1 = H, alkyl, alkoxymethyl, -Et, alkylthiomethyl, -Et, cyano, Me (un)substituted cycloalkyl, Ac, Bz, etc.; R2 = H, when R1 .noteq. H, R2 = alkyl, alkoxy-, chloro-, azolyl-, dimethoxymethyl, cyano, etc., when R1 = H, Me, or Ac, R2 = (tetrahydro)furyl, thienyl, tetrahydropyranyl, etc.; CR1R2 = cycloalkylidene, cycloalkenylidene, or 4-oxacyclohexadienylidene (un)substituted by Me, with optional O or S atoms in 5- or 6-numbered rings], useful as herbicides (no data), were prepd. by reactions of acid halides II (R = halo) with R1R2C:NOH. Me2C:NOH in CH2Cl2 was treated with pyridine, then portionwise with 3,7-dichloro-8-quinolinecarbonyl chloride at 15-20.degree. and the mixt. stirred 8 h at 25.degree. to give 81% I (R1 = R2 = Me, X = Cl, Z = H).

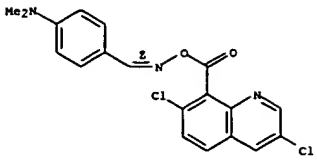
ACCESSION NUMBER: 1987:598109 CAPLUS
DOCUMENT NUMBER: 107:198109
TITLE: Oxime esters of substituted 8-quniolinecarboxylic acids, their preparation, and their use as herbicides
INVENTOR(S): Plath, Peter; Eicken, Karl; Zeeh, Bernd; Eichenauer, Ulrich; Hagen, Helmut; Kohler, Rolf Dieter; Meyer, Norbert; Wuerzer, Bruno
PATENT ASSIGNEE(S): BASF A.-G. , Fed. Rep. Ger.
SOURCE: Ger. Offen., 6 pp.
CODEN: GWXXBX
DOCUMENT TYPE: Patent
LANGUAGE: German
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

| PATENT NO. | KIND | DATE | APPLICATION NO. | DATE |
|---|---|---|---|---|
| DE 3545904 | A1 | 19870625 | DE 1985-3545904 | 19851223 |
| JP 62148471 | A2 | 19870702 | JP 1986-292645 | 19861210 |
| EP 230627 | A1 | 19870805 | EP 1986-117717 | 19861219 |
| EP 230627 | B1 | 19920304 | | |
| R: BE, CH, DE, FR, GB, IT, LI, NL | | | | |
| HU 43042 | A2 | 19870928 | HU 1986-5383 | 19861222 |
| HU 198022 | B | 19890728 | | |
| US 4808212 | A | 19890228 | US 1986-944519 | 19861222 |

PRIORITY APPLN. INFO.: DE 1985-3545904 19851223

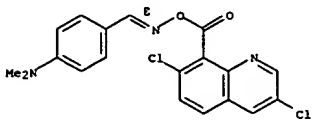
IT 110828-98-3P 110853-36-6P 110853-47-9P 110853-65-1P
RL: AGR (Agricultural use); BAC (Biological activity or effector, except adverse); SPN (Synthetic preparation); BIOL (Biological study); PREP (Preparation); USES (Uses)
(prepn. of, as herbicide)
RN 110828-98-3 CAPLUS
CN Benzaldehyde, 4-(dimethylamino)-, O-[(3,7-dichloro-8-quinolinyl)carbonyl]oxime, (Z)- (9CI) (CA INDEX NAME)

Double bond geometry as shown.



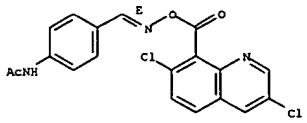
RN 110853-36-6 CAPLUS
CN Benzaldehyde, 4-(dimethylamino)-, O-[(3,7-dichloro-8-quinolinyl)carbonyl]oxime, (E)- (9CI) (CA INDEX NAME)

Double bond geometry as shown.



RN 110853-47-9 CAPLUS
CN Acetamide, N-[4-[[[[(3,7-dichloro-8-quinolinyl)carbonyl]oxy]imino]methyl]phenyl]-, (E)- (9CI) (CA INDEX NAME)

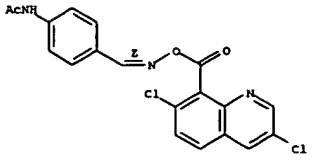
Double bond geometry as shown.



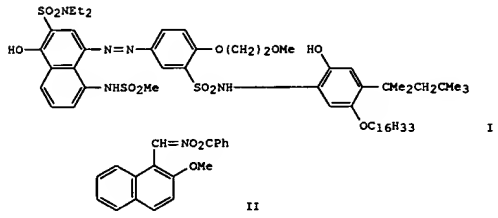
RN 110853-65-1 CAPLUS
CN Acetamide, N-[4-[[[[(3,7-dichloro-8-quinolinyl)carbonyl]oxy]imino]methyl]phenyl]-, (Z)- (9CI) (CA INDEX NAME)

Double bond geometry as shown.









I



II

AB Heat-developable photosensitive materials giving an image with a high signal-to-noise ratio, that is a high Dmax and a low Dmin, and a high d. are composed of a photosensitive gelatin-Ag halide emulsion layer, a dye-forming substance that upon redn. at a high temp. produces a diffusible dye, and an org. acid precursor with the structural unit -CH:NO2C- that is very stable at .ltorsim.50.degree., but frees an acid at temps. proceeding to development to neutralize the base and stop the development. Thus, a PET support was coated with a compn. contg. a gelatin-Ag(Br,I) emulsion 20, a gelatin-Ag benzotriazole emulsion 10, a dispersion of I 33 g, a 5% aq. soln. of p-C9H19C6H4O(CH2CH2O)10H 10, a 10% aq. soln. of H2NSO2NMe2 4, a gelatin dispersion of II 10 mL, and a soln. of guanidine trichloroacetate 1.6 mL in EtOH 16 mL at 33.mu. (wet). After drying a gelatin protective layer was added. The resultant material was then imagewise exposed 10 s at 2000 lx with a W lamp, heated for 60 s on a 140.degree. heating block, contacted with a wet receptor sheet, and heated 6 s at 80.degree. to give a Dmax of 2.10 and a Dmin of 0.20 vs. 2.35 and 0.85, resp., for a II-free control.

ACCESSION NUMBER: 1986:139353 CAPLUS
DOCUMENT NUMBER: 104:139353
TITLE: Heat-developing light-sensitive color material
INVENTOR(S): Kato, Masatoshi; Kitaguchi, Hiroshi
PATENT ASSIGNEE(S): Fuji Photo Film Co., Ltd. , Japan
SOURCE: Ger. Offen., 90 pp.
CODEN: GWXXBX
DOCUMENT TYPE: Patent
LANGUAGE: German
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

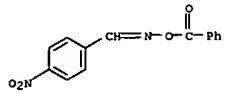
| PATENT NO. | KIND | DATE | APPLICATION NO. | DATE |
|---|---|---|---|---|
| DE 3508761 | A1 | 19850919 | DE 1985-3508761 | 19850312 |
| JP 60192939 | A2 | 19851001 | JP 1984-48305 | 19840314 |
| JP 04069775 | B4 | 19921109 | | |
| US 4656126 | A | 19870407 | US 1985-711885 | 19850314 |

PRIORITY APPLN. INFO.: JP 1984-48305 19840314

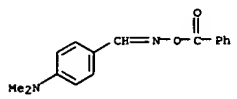


IT **3848-35-9 4058-69-9**
RL: USES (Uses)
(color diffusion-transfer photothermog. materials contg. base-neutralizing acid precursor from, for improved image quality)

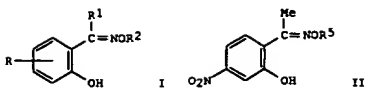
RN 3848-35-9 CAPLUS
CN Benzaldehyde, 4-nitro-, O-benzoyloxime (9CI) (CA INDEX NAME)



RN 4058-69-9 CAPLUS
CN Benzaldehyde, 4-(dimethylamino)-, O-benzoyloxime (9CI) (CA INDEX NAME)



L11 ANSWER 31 OF 68 CAPLUS COPYRIGHT 2002 ACS
GI



I II

AB Arom. oximes I [R = H, Cl, NO2, CO2Et, CO2Me, CONH2, CN; R1 = H, Me, CN, Ph; R2 = R3CO (R3 = H, C1-10 alkyl, allyl, aralkyl), N-protected amino acid or peptide moiety] were used in the acylation of HNR3R4 [R3 = H, C1-5 alkyl, (un)substituted Ph or CH2Ph; R4 = C1-10 alkyl, allyl, aralkyl, amino acid or peptide moiety] to give amides R2NR3R4. Thus, Z-Gly-OH (Z = PhCH2O2C) was condensed with oxime II (R5 = H) by DCC in DMF to give 87% II (R5 = Z-Gly) (III). PhCH2NH2 was acylated by III to give 80% reaction in 2 min 25 s.

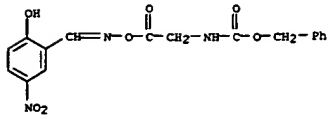
ACCESSION NUMBER: 1985:185507 CAPLUS
DOCUMENT NUMBER: 102:185507
TITLE: Acylation with acylating agent
INVENTOR(S): Hayashi, Ikuo; Ogihara, Keizo; Itikawa, Tadao; Shimizu, Kiyoshi
PATENT ASSIGNEE(S): Nitto Boseki Co., Ltd. , Japan
SOURCE: Eur. Pat. Appl., 17 pp.
CODEN: EPXXDW
DOCUMENT TYPE: Patent
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

| PATENT NO. | KIND | DATE | APPLICATION NO. | DATE |
|---|---|---|---|---|
| EP 127342 | A2 | 19841205 | EP 1984-302958 | 19840502 |
| EP 127342 | A3 | 19870408 | | |
| R: CH, DE, FR, GB, LI | | | | |
| JP 59204156 | A2 | 19841119 | JP 1983-78572 | 19830504 |
| US 4559172 | A | 19851217 | US 1984-605781 | 19840501 |
| PRIORITY APPLN. INFO.: | | | JP 1983-78572 | 19830504 |

OTHER SOURCE(S): CASREACT 102:185507

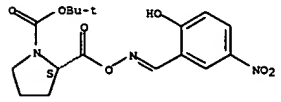
IT 96140-47-5
RL: RCT (Reactant)
(acylation by, of benzylamines)
RN 96140-47-5 CAPLUS
CN Carbamic acid, [2-[[[(2-hydroxy-5-nitrophenyl)methylene]amino]oxy]-2-oxoethyl]-, phenylmethyl ester (9CI) (CA INDEX NAME)

L11 ANSWER 31 OF 68 CAPLUS COPYRIGHT 2002 ACS (Continued)

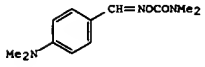


IT 96140-56-6
RL: RCT (Reactant)
(peptide coupling of, with dipeptide Me ester)
RN 96140-56-6 CAPLUS
CN 1-Pyrrolidinecarboxylic acid, 2-[[[[(2-hydroxy-5-nitrophenyl)methylene]amino]oxy]carbonyl]-, 1,1-dimethylethyl ester, (S)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.
Double bond geometry unknown.



L11 ANSWER 32 OF 68 CAPLUS COPYRIGHT 2002 ACS
GI



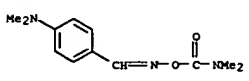
I

AB Photothermog. materials contain in a binder microparticles of a base-releasing precursor which is substantially insol. in water. The materials have good preservation stability due to the precursor having high resistance against self-decompn. by ambient moisture. Thus, a water-insol. type precursor I was mixed with poly(ethylene glycol), gelatin, and water and crushed using a mill to give a dispersion of precursor grains with an av. size of 1 .mu.m. The dispersion was then coated on a poly(ethylene terephthalate) support together with a Ag(Br,I) emulsion, a cyan coupler dispersion contg. 2-dodecylcarbamoyl-1-naphthol, and 2,6-dichloro-p-aminophenol to form a photosensitive film. The film was imagewise-exposed and heat-developed at 150.degree. for 20 s to give a neg. cyan dye image with Dmax 2.08 and Dmin 0.25.

ACCESSION NUMBER: 1985:123151 CAPLUS
DOCUMENT NUMBER: 102:123151
TITLE: Photothermographic materials
PATENT ASSIGNEE(S): Fuji Photo Film Co., Ltd., Japan
SOURCE: Jpn. Kokai Tokkyo Koho, 12 pp.
CODEN: JKXXAF
DOCUMENT TYPE: Patent
LANGUAGE: Japanese
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

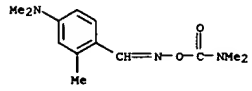
| PATENT NO. | KIND | DATE | APPLICATION NO. | DATE |
|---|---|---|---|---|
| JP 59174830 | A2 | 19841003 | JP 1983-50000 | 19830325 |
| JP 03058498 | B4 | 19910905 | | |
| US 4514493 | A | 19850430 | US 1984-592197 | 19840322 |
| PRIORITY APPLN. INFO.: | | | JP 1983-50000 | 19830325 |

IT 93369-38-1
RL: USES (Uses)
(color photothermog. compn. contg.)
RN 93369-38-1 CAPLUS
CN Benzaldehyde, 4-(dimethylamino)-, O-[(dimethylamino)carbonyl]oxime (9CI) (CA INDEX NAME)

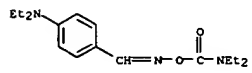


IT 95186-87-1 95186-88-2
RL: USES (Uses)
(color photothermog. material contg.)
RN 95186-87-1 CAPLUS
CN Benzaldehyde, 4-(dimethylamino)-2-methyl-, O-[(dimethylamino)carbonyl]oxim

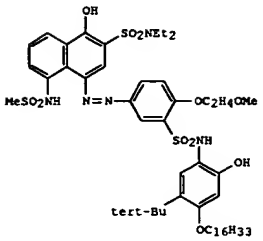
L11 ANSWER 32 OF 68 CAPLUS COPYRIGHT 2002 ACS (Continued)
e (9CI) (CA INDEX NAME)



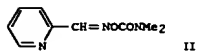
RN 95186-88-2 CAPLUS
CN Benzaldehyde, 4-(diethylamino)-, O-[(diethylamino)carbonyl]oxime (9CI) (CA INDEX NAME)



L11 ANSWER 33 OF 68 CAPLUS COPYRIGHT 2002 ACS
GI



I



II

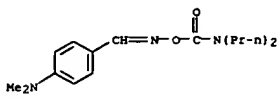
AB A photog. material which forms low-fog storage-stable dye images by heating consists of .gtoreq.1 Ag halide emulsion, a binder, a dye-releasing redox compd., and a base precursor RCH:NOCONR1R2 (R = alkyl, cycloalkyl, alkenyl, aryl, aralkyl, acyl, heterocyclyl; R1, R2 = H, alkyl, cycloalkyl, aralkyl, or RR1 together can form a ring, or NRR1 may form an imino group by a double bond. Thus, a poly(ethylene terephthalate) support was coated with a compn. contg. a Ag(Br,I) emulsion 25, a dye-releasing redox compd. dispersion (contg. I 5, Na bis(2-ethylhexyl) sulfosuccinate 0.5, tricresyl phosphate 5, 10% aq. gelatin 100 g, EtOAc 30 mL) 33 g, a 5% aq. soln. of C9H19C6H4-p-O(CH2CH2O)10H 10, a 10% aq. soln. of H2NSO2NMe2 4 mL, and a soln. contg. the base precursor II 2.5 g in EtOH 20 mL, to a wet thickness of 30 .mu.m, dried, imagewise exposed to 2000 lx for 10 s using W lamp, heated 10 s to 140.degree., contacted with a H2O-wetted image receiver (consisting of a polyester support contg. dispersed TiO2 and a gelatin layer of Me acrylate-N,N,N-trimethyl-N-vinylbenzylammonium chloride copolymer), and heated 6 s at 80.degree.. After sepn. of the elements a neg. magenta image was obtained on the receiver whch had a Dmax and Dmin of 2.05 and 0.2, resp., vs. 0.03 and 0.03, resp., for a II-free control.

ACCESSION NUMBER: 1985:70099 CAPLUS
DOCUMENT NUMBER: 102:70099
TITLE: Heat-developable color photographic materials
INVENTOR(S): Hirai, Hiroyuki; Kawata, Ken
PATENT ASSIGNEE(S): Fuji Photo Film Co., Ltd. , Japan
SOURCE: Eur. Pat. Appl., 61 pp.
CODEN: EPXXDW

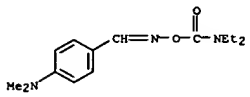
L11 ANSWER 33 OF 68 CAPLUS COPYRIGHT 2002 ACS (Continued)
DOCUMENT TYPE: Patent
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

| PATENT NO. | KIND | DATE | APPLICATION NO. | DATE |
|---|---|---|---|---|
| EP 118078 | A2 | 19840912 | EP 1984-101801 | 19840221 |
| EP 118078 | A3 | 19841128 | | |
| EP 118078 | B1 | 19880107 | | |
| R: DE, FR, GB, NL | | | | |
| JP 59157637 | A2 | 19840907 | JP 1983-31614 | 19830225 |
| JP 02045180 | B4 | 19901008 | | |
| US 4499180 | A | 19850212 | US 1984-583913 | 19840227 |
| PRIORITY APPLN. INFO.: | | | JP 1983-31614 | 19830225 |

IT 94528-51-5
RL: USES (Uses)
(photog. heat-developable emulsion contg., as base precursor)
RN 94528-51-5 CAPLUS
CN Benzaldehyde, 4-(dimethylamino)-, O-[(dipropylamino)carbonyl]oxime (9CI) (CA INDEX NAME)

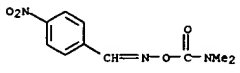


IT 93369-44-9P
RL: SPN (Synthetic preparation); PREP (Preparation)
(prepn. and application of, as base precursor in heat-developable color photog. materials)
RN 93369-44-9 CAPLUS
CN Benzaldehyde, 4-(dimethylamino)-, O-[(diethylamino)carbonyl]oxime (9CI) (CA INDEX NAME)

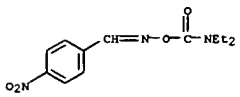


IT 93369-36-9P 93369-37-0P 93369-38-1P
RL: PREP (Preparation)
(prepn. of, for heat-developable color photog. materials)
RN 93369-36-9 CAPLUS
CN Benzaldehyde, 4-nitro-, O-[(dimethylamino)carbonyl]oxime (9CI) (CA INDEX NAME)

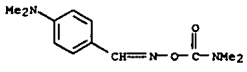
L11 ANSWER 33 OF 68 CAPLUS COPYRIGHT 2002 ACS (Continued)



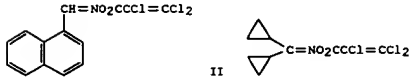
RN 93369-37-0 CAPLUS
CN Benzaldehyde, 4-nitro-, O-[(diethylamino)carbonyl]oxime (9CI) (CA INDEX NAME)



RN 93369-38-1 CAPLUS
CN Benzaldehyde, 4-(dimethylamino)-, O-[(dimethylamino)carbonyl]oxime (9CI) (CA INDEX NAME)



L11 ANSWER 34 OF 68 CAPLUS COPYRIGHT 2002 ACS
GI



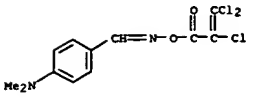
II III

AB Cl2C:CClCO2N:CRR1 (I) (R,R1 = H, lower alkyl, benzyl, cycloalkyl, naphthyl, aryl, etc.) were prepd. and shown, in some cases, to be more effective fungicides than kilazin P. Thus, 100 mL PhMe soln. contg. 40 g Cl2C:CClCOCl were added at .ltoreq.20.degree. to 30 g PhCH:NOH and 26 g Et3N in 400 mL PhMe, and the mixt. was heated 2 h at 50.degree. to give 58 g I (R = Ph, R1 = H). Among 39 other I prepd. were I [R,R1 = Me,Me; Me,Et; (RR1=) cyclohexylidene], the naphthyl analog II, and the dicyclopropyl analog III.

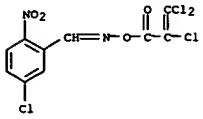
ACCESSION NUMBER: 1984:610740 CAPLUS
DOCUMENT NUMBER: 101:210740
TITLE: Trichloroacryloyl oxime derivatives
INVENTOR(S): Yamada, Yasuo; Saito, Junichi; Gotoh, Toshio; Katsumata, Osamu; Sakawa, Shinji
PATENT ASSIGNEE(S): Nihon Tokushu Noyaku Seizo K. K. , Japan
SOURCE: Eur. Pat. Appl., 34 pp.
CODEN: EPXXDW
DOCUMENT TYPE: Patent
LANGUAGE: German
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

| PATENT NO. | KIND | DATE | APPLICATION NO. | DATE |
|---|---|---|---|---|
| EP 112524 | A1 | 19840704 | EP 1983-112276 | 19831207 |
| EP 112524 | B1 | 19860528 | | |
| R: AT, BE, CH, DE, FR, GB, IT, LI, NL | | | | |
| JP 59110665 | A2 | 19840626 | JP 1982-220165 | 19821217 |
| US 4581365 | A | 19860408 | US 1983-557688 | 19831202 |
| IL 70443 | A1 | 19870130 | IL 1983-70443 | 19831214 |
| BR 8306913 | A | 19840724 | BR 1983-6913 | 19831215 |
| ZA 8309329 | A | 19840829 | ZA 1983-9329 | 19831215 |
| DK 8305810 | A | 19840618 | DK 1983-5810 | 19831216 |
| AU 8322504 | A1 | 19840621 | AU 1983-22504 | 19831219 |
| PRIORITY APPLN. INFO.: | | | JP 1982-220165 | 19821217 |

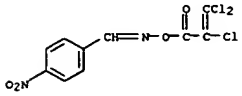
OTHER SOURCE(S): CASREACT 101:210740
IT 93033-19-3P 93033-27-3P 93033-52-4P 93033-53-5P 93033-54-6P
RL: AGR (Agricultural use); BAC (Biological activity or effector, except adverse); SPN (Synthetic preparation); BIOL (Biological study); PREP (Preparation); USES (Uses)
(prepn. of, as fungicide)
RN 93033-19-3 CAPLUS
CN Benzaldehyde, 4-(dimethylamino)-, O-(2,3,3-trichloro-1-oxo-2-propenyl)oxime (9CI) (CA INDEX NAME)



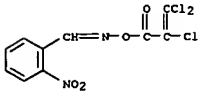
RN 93033-27-3 CAPLUS
CN Benzaldehyde, 5-chloro-2-nitro-, O-(2,3,3-trichloro-1-oxo-2-propenyl)oxime (9CI) (CA INDEX NAME)



RN 93033-52-4 CAPLUS
CN Benzaldehyde, 4-nitro-, O-(2,3,3-trichloro-1-oxo-2-propenyl)oxime (9CI) (CA INDEX NAME)

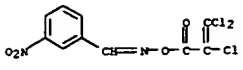


RN 93033-53-5 CAPLUS
CN Benzaldehyde, 2-nitro-, O-(2,3,3-trichloro-1-oxo-2-propenyl)oxime (9CI) (CA INDEX NAME)

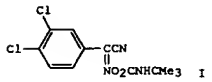


RN 93033-54-6 CAPLUS
CN Benzaldehyde, 3-nitro-, O-(2,3,3-trichloro-1-oxo-2-propenyl)oxime (9CI) (CA INDEX NAME)









I

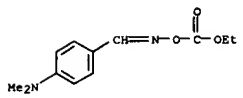
AB Oxime carbamates and oxime carbonates ArC(:NO2CR)X (Ar = substituted Ph, naphthyl, furan, or thiophene; R = mono- or disubstituted amine, substituted alkoxy, substituted alkylthio, the substituents of which include substituted hydrocarbyl and heterocyclic groups; X = H, CN, CO2H, alkyl, alkanoyl, etc.) were prepd. and evaluated as antidotes for the protection of crops against triazine, haloacetanilide, and [(pyridyloxy)phenoxy]propionate herbicides. Thus, in preemergence tests with sorghum-millet var Funk G-522, the title compd. I (ArC(:NO2CR)X; Ar = 2,4-Cl2C6H4, R = NHCMe3, X = CN) [71059-14-8] at 1.0 ppm offered marked protection against Metolachlor [51218-45-2] at 5 ppm. Dust, granulate, wettable powder, and emulsifiable conc. formulations for antidotes are described.

ACCESSION NUMBER: 1984:419085 CAPLUS
DOCUMENT NUMBER: 101:19085
TITLE: 3,4-Dichlorophenylacetonitrile-N-tert-butylcarbamoyloxy ether for the protection of crops against injury by herbicides
INVENTOR(S): Martin, Henry
PATENT ASSIGNEE(S): Ciba-Geigy Corp. , USA
SOURCE: U.S., 17 pp. Cont. of U.S. Ser. No. 938,205, abandoned.
CODEN: USXXAM
DOCUMENT TYPE: Patent
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

| PATENT NO. | KIND | DATE | APPLICATION NO. | DATE |
|---|---|---|---|---|
| US 4416686 | A | 19831122 | US 1980-112049 | 19800114 |
| US 4426221 | A | 19840117 | US 1982-425812 | 19820928 |
| US 4453969 | A | 19840612 | US 1982-425814 | 19820928 |
| US 4453974 | A | 19840612 | US 1982-425815 | 19820928 |
| US 4456468 | A | 19840626 | US 1982-425813 | 19820928 |
| US 4475945 | A | 19841009 | US 1982-425782 | 19820928 |
| PRIORITY APPLN. INFO.: | | | US 1978-938205 | 19780830 |
| | | | US 1980-112049 | 19800114 |

OTHER SOURCE(S): CASREACT 101:19085
IT 71063-92-8P
RL: AGR (Agricultural use); BAC (Biological activity or effector, except adverse); SPN (Synthetic preparation); BIOL (Biological study); PREP (Preparation); USES (Uses)
(prepn. of, as herbicide antidote)
RN 71063-92-8 CAPLUS
CN Benzaldehyde, 4-(dimethylamino)-, O-(ethoxycarbonyl)oxime (9CI) (CA INDEX NAME)





L11 ANSWER 36 OF 68 CAPLUS COPYRIGHT 2002 ACS

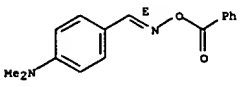
AB The rate of E-Z isomerization of O-acylaldoximes in glacial HOAc has been followed by using spectral data. The decrease of O-acylaldoxime with time was established from the decrease of the limit current of the polarog. wave. Gas chromatog. and liq. chromatog. were applied to det. the concn. of the reaction products. The O-acylaldoximes also undergo acid-catalyzed cleavage to give nitriles.

ACCESSION NUMBER: 1984:102525 CAPLUS
DOCUMENT NUMBER: 100:102525
TITLE: Kinetics of reactions of O-benzoylbenzaldoxime derivatives in acetic acid
AUTHOR(S): Mollin, J.; Holakovska, A.
CORPORATE SOURCE: Fac. Nat. Sci., Palacky Univ., Olomouc, CS-771 46, Czech.
SOURCE: Chem. Zvesti (1983), 37(5), 633-8
CODEN: CHZVAN; ISSN: 0366-6352
DOCUMENT TYPE: Journal
LANGUAGE: English

IT 16061-99-7 88997-13-1
RL: RCT (Reactant)
(isomerization and cleavage reactions of, in acid medium, kinetics of)

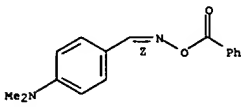
RN 16061-99-7 CAPLUS
CN Benzaldehyde, 4-(dimethylamino)-, O-benzoyloxime, (E)- (9CI) (CA INDEX NAME)

Double bond geometry as shown.



RN 88997-13-1 CAPLUS
CN Benzaldehyde, 4-(dimethylamino)-, O-benzoyloxime, (Z)- (9CI) (CA INDEX NAME)

Double bond geometry as shown.

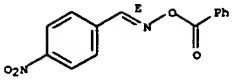


IT 16061-94-2 18322-89-9
RL: RCT (Reactant)
(isomerization and reactions of, in acid medium, kinetics of)

RN 16061-94-2 CAPLUS
CN Benzaldehyde, 4-nitro-, O-benzoyloxime, (E)- (9CI) (CA INDEX NAME)

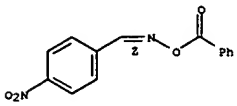
Double bond geometry as shown.

L11 ANSWER 36 OF 68 CAPLUS COPYRIGHT 2002 ACS (Continued)



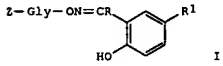
RN 18322-89-9 CAPLUS
CN Benzaldehyde, 4-nitro-, O-benzoyloxime, [C(Z)]- (9CI) (CA INDEX NAME)

Double bond geometry as shown.



L11 ANSWER 37 OF 68 CAPLUS COPYRIGHT 2002 ACS

GI



I

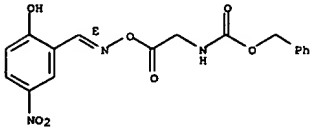
AB Title esters I (Z = PhCH2O2C; R = H, Me, Ph; R1 = H, Cl, NO2) were prepd. by several methods. For aminolysis with benzylamine, esters I showed higher reactivity than similar esters contg. no o-HO group. This is attributed to formation of an intramol. H bond between the o-HO group and the hydroxyimino N. This mechanism of activation seems to be an intramol. acid-catalysis. I (R = H) were the most reactive. The reactivity of esters I is also discussed in relation to pKa values of arom. o-hydroxy oximes.

ACCESSION NUMBER: 1984:7101 CAPLUS
DOCUMENT NUMBER: 100:7101
TITLE: Reactivity of aromatic o-hydroxy oximes. I. Synthesis and aminolysis of acylglycine esters of aromatic o-hydroxy oximes
AUTHOR(S): Hayashi, Ikuo; Ogihara, Keizo; Shimizu, Kiyoshi
CORPORATE SOURCE: Res. Dev. Lab., Nitto Boseki Co., Ltd., Koriyama, 963, Japan
SOURCE: Bull. Chem. Soc. Jpn. (1983), 56(8), 2432-7
CODEN: BCSJA8; ISSN: 0009-2673
DOCUMENT TYPE: Journal
LANGUAGE: English

IT 87974-60-5P 87974-69-4P
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation)
(prepn. and aminolysis of)

RN 87974-60-5 CAPLUS
CN Carbamic acid, [2-[[[(2-hydroxy-5-nitrophenyl)methylene]amino]oxy]-2-oxoethyl]-, phenylmethyl ester, (E)- (9CI) (CA INDEX NAME)

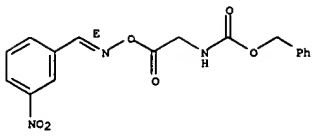
Double bond geometry as shown.



RN 87974-69-4 CAPLUS
CN Carbamic acid, [2-[[[(3-nitrophenyl)methylene]amino]oxy]-2-oxoethyl]-, phenylmethyl ester, (E)- (9CI) (CA INDEX NAME)

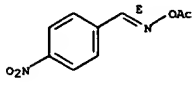
Double bond geometry as shown.

L11 ANSWER 37 OF 68 CAPLUS COPYRIGHT 2002 ACS (Continued)



L11 ANSWER 38 OF 68 CAPLUS COPYRIGHT 2002 ACS
AB The CTAB micelle-catalyzed reaction of RCH:NOH (I; R = aryl) with p-AcOC6H4NO2 to give RCH:NOAc was studied. The catalysis is more effective as the base strength of I decreases, but the reactivity of I is not dependent on its basicity. These are orbital controlled reactions involving interactions between both the n and .pi. occupied orbitals of I and the LUMO of p-AcOC6H4NO2.
ACCESSION NUMBER: 1982:5759 CAPLUS
DOCUMENT NUMBER: 96:5759
TITLE: Effects of micelles on the basicity and reactivity of .alpha.-aromatic nucleophiles
AUTHOR(S): Meyer, G.; Viout, P.
CORPORATE SOURCE: Groupe Rech. 12, CNRS, Thiais, 94320, Fr.
SOURCE: Tetrahedron (1981), 37(12), 2269-72
CODEN: TETRAB; ISSN: 0040-4020
DOCUMENT TYPE: Journal
LANGUAGE: French
IT 80055-47-6P
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation)
(prepn. and hydrolysis of, micelle effect on)
RN 80055-47-6 CAPLUS
CN Benzaldehyde, 4-nitro-, O-acetyloxime, (E)- (9CI) (CA INDEX NAME)

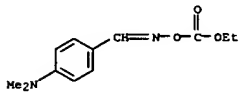
Double bond geometry as shown.



L11 ANSWER 39 OF 68 CAPLUS COPYRIGHT 2002 ACS
AB Carbamates RR1C:NO2CR2 [I; R = optionally substituted Ph or naphthyl, esterified CO2H, optionally substituted carbamoyl; R1 = cyano, alkanoyl, CO2H, esterified CO2H, H, halo, alkyl, optionally carbamoyl; R2 = optionally substituted NH2, ER3 (E = O, S; R3 = aliph., cycloaliph. araliph., arom., or heterocyclic group)] were prepd.; they showed usefulness as antidotes for herbicides. Thus, I (R = 3,4-Cl2C6H3, R1 = cyano, R2 = SEt) was prepd. in 73.7% yield by treating 3,4-Cl2C6H3C(:NOH)CN with EtSCOCl.
ACCESSION NUMBER: 1981:442679 CAPLUS
DOCUMENT NUMBER: 95:42679
TITLE: Oxime carbamates and -carbonates for the protection of plant cultures
PATENT ASSIGNEE(S): Ciba-Geigy A.-G., Switz.
SOURCE: Neth. Appl., 54 pp.
CODEN: NAXXAN
DOCUMENT TYPE: Patent
LANGUAGE: Dutch
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

| PATENT NO. | KIND | DATE | APPLICATION NO. | DATE |
|---|---|---|---|---|
| NL 7808962 | A | 19800304 | NL 1978-8962 | 19780831 |

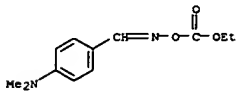
IT 71063-92-8P
RL: SPN (Synthetic preparation); PREP (Preparation)
(prepn. of)
RN 71063-92-8 CAPLUS
CN Benzaldehyde, 4-(dimethylamino)-, O-(ethoxycarbonyl)oxime (9CI) (CA INDEX NAME)



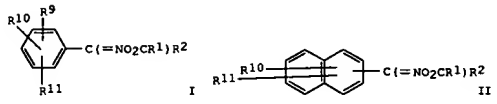
L11 ANSWER 40 OF 68 CAPLUS COPYRIGHT 2002 ACS
AB The title compds. RCR1:NOR2 [R = (un)substituted Ph, naphthyl, furyl, or thienyl, or carboxylic ester or carbamyl group; R1 = cyano, alkanoyl, carboxylic ester, CO2H, halo, H, carboxamide, alkyl; R2 = carboxamide, ester, thioester group], useful as antidotes for protecting cultivated plants from harmful agrochems., esp. herbicides, were prepd. The compds. are esp. useful in seed or seedling dressing compns. E.g., PhC(CN):NO2CNHMe was prepd. (89.8%) by treating benzyl cyanide oxime with MeNCO in the presence of diazabicyclooctane catalyst (MeCN, 50.degree.).
ACCESSION NUMBER: 1981:46990 CAPLUS
DOCUMENT NUMBER: 94:46990
TITLE: Oxime carbamates and oxime carbonates for the protection of cultivated crops
INVENTOR(S): Martin, Henry
PATENT ASSIGNEE(S): Ciba-Geigy A.-G., Switz.
SOURCE: Brit. UK Pat. Appl., 21 pp.
CODEN: BAXXDU
DOCUMENT TYPE: Patent
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

| PATENT NO. | KIND | DATE | APPLICATION NO. | DATE |
|---|---|---|---|---|
| GB 2028797 | A | 19800312 | GB 1978-35200 | 19780831 |
| GB 2028797 | B2 | 19830427 | | |

IT 71063-92-8P
RL: BAC (Biological activity or effector, except adverse); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)
(prepn. of, as herbicide antidote)
RN 71063-92-8 CAPLUS
CN Benzaldehyde, 4-(dimethylamino)-, O-(ethoxycarbonyl)oxime (9CI) (CA INDEX NAME)



L11 ANSWER 41 OF 68 CAPLUS COPYRIGHT 2002 ACS
GI

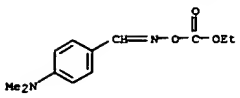


AB Glyoxylonitrile oximes and similar compds. were O-acylated by org. isocyanates, carbamoyl chlorides, chloroformate esters, and esters of ClC(O)SH to yield RC(:NO2CR1)R2 [R = CO2R3 (R3 = aliph., cycloaliph., or araliph. group), COR4 (R4 = NR5R6 (R5 = H, alkyl, cycloalkyl; R6 = H, aliph., cycloaliph., araliph., arom., or heterocyclic group; or NR5R6 form a heterocycle), NHCONHR6 (R6 same as above)], furyl, thienyl, halofuryl or -thienyl, nitrofuryl or -thienyl, alkylfuryl or -thienyl; R1 = NR7R8 (R7 = H, alkoxy, aliph., cycloaliph., araliph., arom., or heterocyclic group; R8 = aliph., cycloaliph., araliph., arom., or heterocyclic group), ZR8 (Z = O or S, R8 same as above); R2 = cyano, alkanoyl, (un)esterified CO2H, H, carbamoyl, halo, alkyl] and arom. compds. I and II (R1 and R2 same as above; R9 = H, halo, alkyl, alkoxy, phenoxy; R10 and R11 independently are H, halo, NO2, alkyl, haloalkyl, alkoxy), which showed effectiveness as antidotes for herbicides. A mixt. of PhC(:NOH)CN, MeNCO, and diazabicyclooctane in MeCN was heated at 50.degree. to give PhC(:NO2CNHMe)CN.
ACCESSION NUMBER: 1981:30218 CAPLUS
DOCUMENT NUMBER: 94:30218
TITLE: Oxime carbamates and oxime carbonates useful in protecting plants
PATENT ASSIGNEE(S): Ciba-Geigy A.-G., Switz.
SOURCE: Fr. Demande, 44 pp.
CODEN: FRXXBL
DOCUMENT TYPE: Patent
LANGUAGE: French
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

| PATENT NO. | KIND | DATE | APPLICATION NO. | DATE |
|---|---|---|---|---|
| FR 2434802 | A1 | 19800328 | FR 1978-25043 | 19780830 |
| FR 2434802 | B1 | 19810306 | | |

IT 71063-92-8P
RL: SPN (Synthetic preparation); PREP (Preparation)
(prepn. of)
RN 71063-92-8 CAPLUS
CN Benzaldehyde, 4-(dimethylamino)-, O-(ethoxycarbonyl)oxime (9CI) (CA INDEX NAME)

L11 ANSWER 41 OF 68 CAPLUS COPYRIGHT 2002 ACS (Continued)



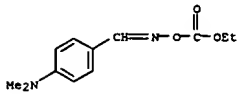
L11 ANSWER 42 OF 68 CAPLUS COPYRIGHT 2002 ACS

AB RR1C:NO2CR2 (R = optionally substituted Ph, naphthyl, thienyl, furyl; R1 = cyano, alkanoyl, optionally esterified or amidated CO2H, H, halogen, alkyl; R2 = amino, optionally etherified OH or SH) were prepd. Thus NCCPh:NOH was treated with MeNCS to give 89.8% NCCPh:NO2CNHMe. Wheat seeds treated with 10 ppm PhMeC:NO2CNHC6H4Cl-4 (I) showed .apprx.30% damage when grown in soil pretreated with 8 ppm Me 2-[4-(3,5-dichloro-2-pyridyloxy)phenoxy]propionate, compared with .apprx.70% damage in the absence of treatment with I.

ACCESSION NUMBER: 1980:586009 CAPLUS
DOCUMENT NUMBER: 93:186009
TITLE: Oxime carbonates useful in protecting plants from damage by herbicides
INVENTOR(S): Martin, Henry
PATENT ASSIGNEE(S): Ciba-Geigy A.-G., Switz.
SOURCE: Braz. Pedido PI, 59 pp.
CODEN: BPXXDX
DOCUMENT TYPE: Patent
LANGUAGE: Portuguese
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

| PATENT NO. | KIND | DATE | APPLICATION NO. | DATE |
|---|---|---|---|---|
| BR 7805666 | A | 19800318 | BR 1978-5666 | 19780831 |

IT 71063-92-8P
RL: SPN (Synthetic preparation); PREP (Preparation)
(prepn. of)
RN 71063-92-8 CAPLUS
CN Benzaldehyde, 4-(dimethylamino)-, O-(ethoxycarbonyl)oxime (9CI) (CA INDEX NAME)

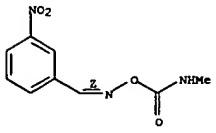


L11 ANSWER 43 OF 68 CAPLUS COPYRIGHT 2002 ACS

AB Hydrolysis of R2C6H4CR1:NO2CNRMe (R, R1 = H, Me; R2 = H, Me, MeO, Me2CH, Br, m- and p-O2N), studied in 0.01-5.0 N OH- at 25.degree. showed 1st-order dependence each in OH- and the ester. The data suggest an ElcB elimination mechanism with formation of an isocyanate intermediate. The Hammett .rho. values were different from those usually reported for such a reaction scheme, as the imine bond weakens the substituent effects.

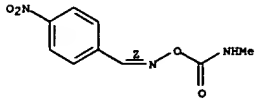
ACCESSION NUMBER: 1980:407484 CAPLUS
DOCUMENT NUMBER: 93:7484
TITLE: Kinetics and mechanism of hydrolysis of insecticidal O-(methylcarbamoyl)oximes
AUTHOR(S): Mrlina, Georges; Calmon, Jean Pierre
CORPORATE SOURCE: Lab. Chim. Org. Biol. Physicochem. Sol, Ec. Natl. Super. Agron., Toulouse, 31076, Fr.
SOURCE: J. Agric. Food Chem. (1980), 28(3), 605-9
CODEN: JAFCAU; ISSN: 0021-8561
DOCUMENT TYPE: Journal
LANGUAGE: English
IT 73744-22-6P 73744-23-7P
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation)
(prepn. and alk. hydrolysis of, kinetics of)
RN 73744-22-6 CAPLUS
CN Benzaldehyde, 3-nitro-, O-[(methylamino)carbonyl]oxime, (Z)- (9CI) (CA INDEX NAME)

Double bond geometry as shown.



RN 73744-23-7 CAPLUS
CN Benzaldehyde, 4-nitro-, O-[(methylamino)carbonyl]oxime, (Z)- (9CI) (CA INDEX NAME)

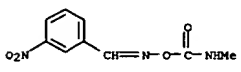
Double bond geometry as shown.



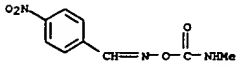
L11 ANSWER 44 OF 68 CAPLUS COPYRIGHT 2002 ACS

AB As the anticholinesterase activity and the mechanism of alk. hydrolysis of O-(methylcarbamoyl) benzaldoximes and acetophenoximes are analogous to those of Ph N-methylcarbamates, these 2 groups of derivs. were compared by means of structure-activity relations. The correlations with the electronic substituent parameter .sigma. showed that the mechanism of inhibition of acetylcholinesterase [9000-81-1] by O-(methylcarbamoyl) oximes is the same as that obsd. for Ph N-methylcarbamates bearing strongly electron-withdrawing substituents. The correlations with the bimol. rate const. kOH suggest that the mechanism of the alk. hydrolysis of oxime carbamates may closely parallel their mechanism of interaction with acetylcholinesterase at the serine hydroxyl.

ACCESSION NUMBER: 1980:210126 CAPLUS
DOCUMENT NUMBER: 92:210126
TITLE: Inhibition of acetylcholinesterase by O-(methylcarbamoyl) oximes. Structure-activity relationships
AUTHOR(S): Mrlina, Georges; Calmon, Jean Pierre
CORPORATE SOURCE: Lab. Chim. Org. Biol. Phys.-Chim. Sol, Ec. Natl. Super. Agron., Toulouse, 31076, Fr.
SOURCE: J. Agric. Food Chem. (1980), 28(3), 673-5
CODEN: JAFCAU; ISSN: 0021-8561
DOCUMENT TYPE: Journal
LANGUAGE: English
IT 39102-00-6 39102-02-8
RL: BIOL (Biological study)
(acetylcholinesterase inhibition by)
RN 39102-00-6 CAPLUS
CN Benzaldehyde, 3-nitro-, O-[(methylamino)carbonyl]oxime (9CI) (CA INDEX NAME)



RN 39102-02-8 CAPLUS
CN Benzaldehyde, 4-nitro-, O-[(methylamino)carbonyl]oxime (9CI) (CA INDEX NAME)

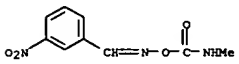


L11 ANSWER 45 OF 68 CAPLUS COPYRIGHT 2002 ACS
AB The oxime carbamates and carbonates ArCX(:NOCOR) (Ar = substituted or unsubstituted Ph, naphthyl, 2-furanyl, H2NCO, MeOCO, EtOCO, etc.; X = CN, Me, NO2, etc.; R = substituted NH2, alkoxy, alkylthio, etc.) are herbicidal antidotes. Thus, in a pre-emergence lab. expt., 1 ppm PhC(CN)(:NOCONHPr-iso) [71059-03-5] protected sorghum millet against the phytotoxic effect of metolachlor [51218-45-2]. The synthesis of the compds. is given.

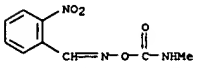
ACCESSION NUMBER: 1980:141801 CAPLUS
DOCUMENT NUMBER: 92:141801
TITLE: Oxime carbamates and oxime carbonates for the protection of cultivated crops
INVENTOR(S): Martin, Henry
PATENT ASSIGNEE(S): Ciba-Geigy A.-G., Switz.
SOURCE: S. African, 56 pp.
CODEN: SFXXAB
DOCUMENT TYPE: Patent
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

| PATENT NO. | KIND | DATE | APPLICATION NO. | DATE |
|---|---|---|---|---|
| ZA 7804846 | A | 19790829 | ZA 1978-4846 | 19780825 |
| DE 2837204 | A1 | 19800306 | DE 1978-2837204 | 19780825 |
| DE 2837204 | C2 | 19891026 | | |
| CA 1159071 | A1 | 19831220 | CA 1978-310206 | 19780829 |
| AU 530210 | B2 | 19830707 | AU 1978-39380 | 19780830 |
| AU 7839380 | A1 | 19800306 | | |

PRIORITY APPLN. INFO.: ZA 1978-4846 19780825
IT **39102-00-6 39102-01-7 71063-92-8 72405-73-3**
RL: BIOL (Biological study)
(prepn. as herbicide antidote)
RN 39102-00-6 CAPLUS
CN Benzaldehyde, 3-nitro-, O-[(methylamino)carbonyl]oxime (9CI) (CA INDEX NAME)

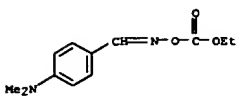


RN 39102-01-7 CAPLUS
CN Benzaldehyde, 2-nitro-, O-[(methylamino)carbonyl]oxime (9CI) (CA INDEX NAME)

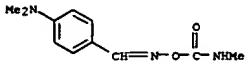


RN 71063-92-8 CAPLUS
CN Benzaldehyde, 4-(dimethylamino)-, O-(ethoxycarbonyl)oxime (9CI) (CA INDEX NAME)

L11 ANSWER 45 OF 68 CAPLUS COPYRIGHT 2002 ACS (Continued)



RN 72405-73-3 CAPLUS
CN Benzaldehyde, 4-(dimethylamino)-, O-[(methylamino)carbonyl]oxime (9CI) (CA INDEX NAME)

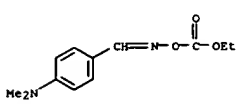


L11 ANSWER 46 OF 68 CAPLUS COPYRIGHT 2002 ACS
AB ArC[:NOC(O)R]R1 [Ar = CO2R2 (R2 = alkyl, cycloalkyl, aralkyl), substituted carbamoyl, Ph, halo-, alkyl-, alkoxy-, phenoxy-, cyano-, nitro-, (haloalkyl)-, or (trifluoromethyl)phenyl, naphthyl, halo-, nitro-, alkyl-, (haloalkyl)-, or alkoxynaphthyl; R = NR3R4 (R3 = H, alkoxy; R4 = alkyl, cycloalkyl, aralkyl, aryl, heteroaryl), ZR4 (Z = O, S; R4 same as above); R1 = cyano, alkanoyl, carbalkoxy, CO2H, H, carbamoyl, halo, alkyl] were prepd. by different methods and they protected plants against herbicides. Thus, MeNCO and diazabicyclooctane was added to PhC(:NOH)CN in MeCN, and the mixt. was heated at 50.degree. to give PhC(:NO2CNHMe)CN.

ACCESSION NUMBER: 1979:507670 CAPLUS
DOCUMENT NUMBER: 91:107670
TITLE: (Hydroximino)malonic acid carbamates and carbonates for protecting plants from herbicides
PATENT ASSIGNEE(S): Ciba-Geigy A.-G., Switz.
SOURCE: Belg., 45 pp.
CODEN: BEXXAL
DOCUMENT TYPE: Patent
LANGUAGE: French
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

| PATENT NO. | KIND | DATE | APPLICATION NO. | DATE |
|---|---|---|---|---|
| BE 870066 | A1 | 19790228 | BE 1978-190145 | 19780830 |

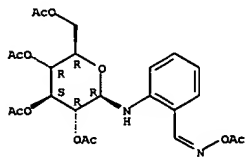
IT **71063-92-8P**
RL: SPN (Synthetic preparation); PREP (Preparation)
(prepn. of)
RN 71063-92-8 CAPLUS
CN Benzaldehyde, 4-(dimethylamino)-, O-(ethoxycarbonyl)oxime (9CI) (CA INDEX NAME)



L11 ANSWER 47 OF 68 CAPLUS COPYRIGHT 2002 ACS
AB N-glycosides of o-H2NC6H4CH:NOH with D-glucose, D-galactose, D-mannose, L-rhamnose, and D-ribose were prepd. by fusing the reactants in the presence of aq. HCl. N-glycosides of m-H2NC6H4CH:NOH were prepd. similarly. All glycosides in the meta series are colorless, whereas those in the ortho series are bright yellow due to formation of a pseudonitroso system. The .alpha.-anomer structure is presumed for the ortho derivs., whereas the .beta.-anomers predominate in the meta series.

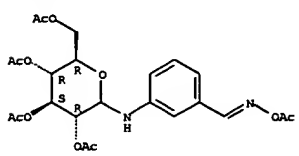
ACCESSION NUMBER: 1979:39181 CAPLUS
DOCUMENT NUMBER: 90:39181
TITLE: Syntheses and studies on N-glycosides. VII. N-Glycosides of o- and m-aminobenzaldoximes
AUTHOR(S): Sykulski, Jerzy; Czyzewska, Joanna
CORPORATE SOURCE: Sch. Med., Inst. Basic Chem. Sci., Lodz, Pol.
SOURCE: Acta Pol. Pharm. (1978), 35(2), 169-73
CODEN: APPHAX; ISSN: 0001-6837
DOCUMENT TYPE: Journal
LANGUAGE: Polish
IT **68768-60-5P 68768-61-6P**
RL: SPN (Synthetic preparation); PREP (Preparation)
(prepn. of)
RN 68768-60-5 CAPLUS
CN Benzaldehyde, 2-[(2,3,4,6-tetra-O-acetyl-.beta.-D-glucopyranosyl)amino]-, 1-(O-acetyloxime) (9CI) (CA INDEX NAME)

Absolute stereochemistry.
Double bond geometry unknown.



RN 68768-61-6 CAPLUS
CN Benzaldehyde, 3-[(2,3,4,6-tetra-O-acetyl-D-glucopyranosyl)amino]-, 1-(O-acetyloxime) (9CI) (CA INDEX NAME)

Absolute stereochemistry.
Double bond geometry unknown.



L11 ANSWER 47 OF 68 CAPLUS COPYRIGHT 2002 ACS (Continued)

L11 ANSWER 48 OF 68 CAPLUS COPYRIGHT 2002 ACS

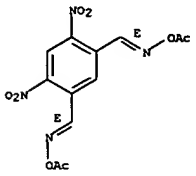
AB The reaction of 4,6-dinitroisophthalaldehyde with pyridine gave 1-(2,4-diformyl-5-hydroxyphenyl)pyridinium hydroxide inner salt (I), and the reaction of 4,6-dinitroisophthalonitrile with pyridine gave the 2,4-dicyano analog of I as the main product, with 1-(3,5-dicyano-2-hydroxy-6-nitrophenyl)pyridinium hydroxide inner salt and 4-hydroxy-6-nitroisophthalonitrile as side products.

ACCESSION NUMBER: 1978:529220 CAPLUS
DOCUMENT NUMBER: 89:129220
TITLE: The reaction of 4,6-dinitroisophthalaldehyde and 4,6-dinitroisophthalonitrile with pyridine
AUTHOR(S): Adam, Jean Marie; Hindermann, Peter; Winkler, Tammo
CORPORATE SOURCE: Farbenforschungslab., Ciba-Geigy A.-G., Basel, Switz.
SOURCE: Helv. Chim. Acta (1978), 61(5), 1778-83
CODEN: HCACAV; ISSN: 0018-019X
DOCUMENT TYPE: Journal
LANGUAGE: German

IT **67640-45-3P 67640-47-5P**
RL: SPN (Synthetic preparation); PREP (Preparation)
(prepn. of)

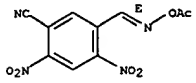
RN 67640-45-3 CAPLUS
CN 1,3-Benzenedicarboxaldehyde, 4,6-dinitro-, bis(O-acetyloxime), (E,E)- (9CI) (CA INDEX NAME)

Double bond geometry as shown.



RN 67640-47-5 CAPLUS
CN Benzonitrile, 5-[[(acetyloxy)imino]methyl]-2,4-dinitro-, (E)- (9CI) (CA INDEX NAME)

Double bond geometry as shown.



L11 ANSWER 49 OF 68 CAPLUS COPYRIGHT 2002 ACS

AB The alk. hydrolysis kinetics and mechanism of 4-O2NC6H4NRCO2N:CHC6H4R1 (I; R = H, Me; R1 = H, 4-MeO, 4-Me, 3-Cl, 3-NO2, 4-NO2) were detd. I (R = H) in aq. EtOH contg. NaOH gave 4-O2NC6H4NHCO2Na (which decompd. to 4-O2NC6H4NH2) and RC6H4CH:NONa (II; R = H, 4-MeO, 4-Me, 3-Cl, 3-NO2, 4-NO2) via an E1cB mechanism; II hydrolyzed to give the corresponding RC6H4CHO. The hydrolysis of I (R = H) exhibited .rho. 1.4 and .beta.-1.4.

The hydrolysis of I (R = Me) gave 4-O2NC6H4NHMe and the corresponding II via a BAc2 mechanism in which N-C bond cleavage occurred in the rate-detg.

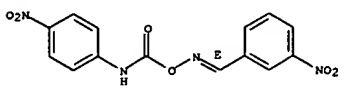
decompn. of the tetrahedral intermediate; this process had .rho. 0.

ACCESSION NUMBER: 1978:104467 CAPLUS
DOCUMENT NUMBER: 88:104467
TITLE: Carbamates. Part IX. Kinetics and mechanism of alkaline hydrolysis of (E)-O-(N-4-nitrophenylcarbamoyl)benzaldoximes in 30% aqueous ethanol
AUTHOR(S): Hladka, J.; Mindl, J.; Vecera, M.
CORPORATE SOURCE: Org. Chem. Dep., Inst. Chem. Technol., Pardubice, Czech.
SOURCE: Collect. Czech. Chem. Commun. (1977), 42(11), 3316-24
CODEN: CCCCAK
DOCUMENT TYPE: Journal
LANGUAGE: English

IT **65786-04-1P 65786-05-2P 65786-08-5P**
RL: PEP (Physical, engineering or chemical process); PRP (Properties); RCT (Reactant); PROC (Process)
(solvolysis of, kinetics and mechanism of)

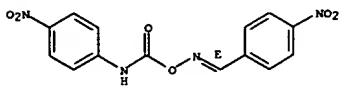
RN 65786-04-1 CAPLUS
CN Benzaldehyde, 3-nitro-, O-[[(4-nitrophenyl)amino]carbonyl]oxime, (E)- (9CI) (CA INDEX NAME)

Double bond geometry as shown.



RN 65786-05-2 CAPLUS
CN Benzaldehyde, 4-nitro-, O-[[(4-nitrophenyl)amino]carbonyl]oxime, (E)- (9CI) (CA INDEX NAME)

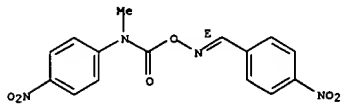
Double bond geometry as shown.



RN 65786-08-5 CAPLUS
CN Benzaldehyde, 4-nitro-, O-[[methyl(4-nitrophenyl)amino]carbonyl]oxime,

L11 ANSWER 49 OF 68 CAPLUS COPYRIGHT 2002 ACS (Continued)
(E)- (9CI) (CA INDEX NAME)

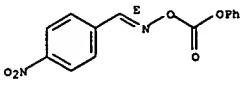
Double bond geometry as shown.



L11 ANSWER 50 OF 68 CAPLUS COPYRIGHT 2002 ACS
AB The pyrolysis of (E)-p-RC6H4CH:NOCO2C6H4R1 at 100-20.degree. to give nitriles followed 1st order kinetics and the decompn. rates showed little dependence on inductive effects or solvent polarity. Low entropy values along with the fact that the E and Z-isomers behaved quite differently led to the proposal of a cyclic transition state for the decompns.

ACCESSION NUMBER: 1976:89302 CAPLUS
DOCUMENT NUMBER: 84:89302
TITLE: The mechanism for the thermal decomposition of E-aldoxime carbonates
AUTHOR(S): Prokipcak, J. M.; Forte, P. A.
CORPORATE SOURCE: Dep. Chem., Univ. Guelph, Guelph, Ont., Can.
SOURCE: Can. J. Chem. (1975), 53(22), 3481-6
CODEN: CJCHAG
DOCUMENT TYPE: Journal
LANGUAGE: English
IT 58539-31-4
RL: PRP (Properties)
(thermodecompn. of, kinetics of)
RN 58539-31-4 CAPLUS
CN Benzaldehyde, 4-nitro-, O-(phenoxycarbonyl)oxime, (E)- (9CI) (CA INDEX NAME)

Double bond geometry as shown.

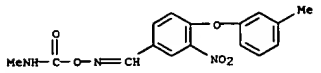


L11 ANSWER 51 OF 68 CAPLUS COPYRIGHT 2002 ACS
GI For diagram(s), see printed CA Issue.
AB Diphenyl ether derivs. (I; R = lower alkyl; R1 to R4 = H, halo, lower alkyl, lower alkoxy; n = 0-1; a, b = 0-1; a + b = 1-2) were prepd. by reaction of II with RNCO or RNHCOCl. I had insecticidal, anticarcinogenic, and antibacterial activities. Thus, 6.0 g MeNCO and trace Et3N were added to 30.0 g p-(2-nitro-4-chlorophenoxy)benzaldehyde in THF and the mixt. refluxed 1 hr to give 27.5 g O-methylcarbamoyl-p-(2-nitro-4-chlorophenoxy)benzaldoxime. Among 13 more I prepd. were O-methylcarbamoyl-3-nitro-4-(m-tolyloxy)-, O-methylcarbamoyl-3-nitro-4-(p-methoxyphenoxy)-, O-methylcarbamoyl-3-nitro-4-phenoxy-, and O-methylcarbamoyl-3-nitro-4-(o-chlorophenoxy)benzaldoximes.

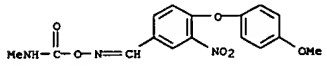
ACCESSION NUMBER: 1975:458415 CAPLUS
DOCUMENT NUMBER: 83:58415
TITLE: Diphenyl ether derivatives
INVENTOR(S): Kotani, Akeshi; Inamasu, Shuji
PATENT ASSIGNEE(S): Yoshitomi Pharmaceutical Industries, Ltd., Japan
SOURCE: Japan. Kokai, 4 pp.
CODEN: JKXXAF
DOCUMENT TYPE: Patent
LANGUAGE: Japanese
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

| PATENT NO. | KIND | DATE | APPLICATION NO. | DATE |
|---|---|---|---|---|
| JP 50012047 | A2 | 19750207 | JP 1973-62203 | 19730601 |

IT **56135-51-4P 56135-52-5P 56135-53-6P 56135-54-7P 56135-55-8P 56135-56-9P 56135-57-0P 56135-61-6P 56135-62-7P 56135-63-8P**
RL: SPN (Synthetic preparation); PREP (Preparation)
(prepn. of)
RN 56135-51-4 CAPLUS
CN Benzaldehyde, 4-(3-methylphenoxy)-3-nitro-, O-[(methylamino)carbonyl]oxime (9CI) (CA INDEX NAME)

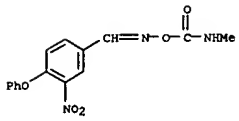


RN 56135-52-5 CAPLUS
CN Benzaldehyde, 4-(4-methoxyphenoxy)-3-nitro-, O-[(methylamino)carbonyl]oxime (9CI) (CA INDEX NAME)

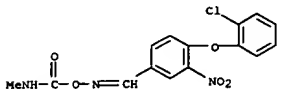


RN 56135-53-6 CAPLUS
CN Benzaldehyde, 3-nitro-4-phenoxy-, O-[(methylamino)carbonyl]oxime (9CI)

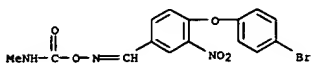
L11 ANSWER 51 OF 68 CAPLUS COPYRIGHT 2002 ACS (Continued)
(CA INDEX NAME)



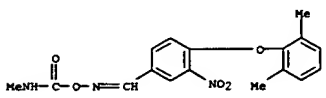
RN 56135-54-7 CAPLUS
CN Benzaldehyde, 4-(2-chlorophenoxy)-3-nitro-, O-[(methylamino)carbonyl]oxime (9CI) (CA INDEX NAME)



RN 56135-55-8 CAPLUS
CN Benzaldehyde, 4-(4-bromophenoxy)-3-nitro-, O-[(methylamino)carbonyl]oxime (9CI) (CA INDEX NAME)

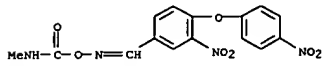


RN 56135-56-9 CAPLUS
CN Benzaldehyde, 4-(2,6-dimethylphenoxy)-3-nitro-, O-[(methylamino)carbonyl]oxime (9CI) (CA INDEX NAME)

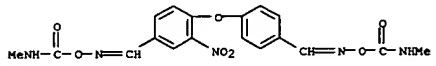


RN 56135-57-0 CAPLUS
CN Benzaldehyde, 3-nitro-4-(4-nitrophenoxy)-, O-[(methylamino)carbonyl]oxime (9CI) (CA INDEX NAME)

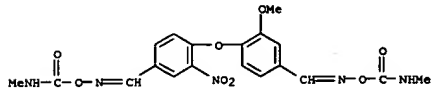
L11 ANSWER 51 OF 68 CAPLUS COPYRIGHT 2002 ACS (Continued)



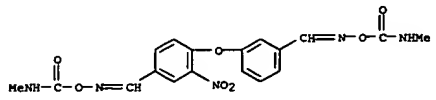
RN 56135-61-6 CAPLUS
CN Benzaldehyde, 4-[4-[[[[(methylamino)carbonyl]oxy]imino]methyl]phenoxy]-3-nitro-, O-[(methylamino)carbonyl]oxime (9CI) (CA INDEX NAME)



RN 56135-62-7 CAPLUS
CN Benzaldehyde, 3-methoxy-4-[4-[[[[(methylamino)carbonyl]oxy]imino]methyl]-2-nitrophenoxy]-, O-[(methylamino)carbonyl]oxime (9CI) (CA INDEX NAME)



RN 56135-63-8 CAPLUS
CN Benzaldehyde, 4-[3-[[[[(methylamino)carbonyl]oxy]imino]methyl]phenoxy]-3-nitro-, O-[(methylamino)carbonyl]oxime (9CI) (CA INDEX NAME)



L11 ANSWER 52 OF 68 CAPLUS COPYRIGHT 2002 ACS
GI For diagram(s), see printed CA Issue.
AB Twenty-three mixts. of the oximes I (R = R1 = R2 = Me, R3 = Cl, R4 = H (II)) or III (R = Me, R1 = iodine (IV)] with each other, with other I (R =
Me, H, or Ph; R1 = Ph, Me2CHCH2, or 3-O2NC6H4; or RR1 = CH:CMeCH2CMe2CH2; R2 = H or Me, R3 = Cl or Me, R4 = H or Cl) or III (R = Me, MeCHEt, or Me2CH; R1 = iodine, Cl or Br) or with 3-RCONHC6H4O2CNR1R2 (R = MeO or Me2N, R1 = H or Me, R2 = CHMeEt, CMe3, CHMeCHMe2, or Ph) or NCCH2OC6H2R2CN-2,6,4 (R = iodine, Br, or Cl), e.g. acetone O-[2-(2,4-dichlorophenoxy)propionyl]oxime-isopropylideneamino 4-cyano-2,6-diiodophenyl carbonate mixt. (II-IV mixt.) [54841-89-3] had higher herbicidal effects than the components.
ACCESSION NUMBER: 1975:134031 CAPLUS
DOCUMENT NUMBER: 82:134031
TITLE: Herbicidal mixtures
INVENTOR(S): Boroschewski, Gerhard; Puttner, Reinhold; Arndt, Friedrich
PATENT ASSIGNEE(S): Schering A.-G.
SOURCE: Ger. Offen., 50 pp.
CODEN: GWXXBX
DOCUMENT TYPE: Patent
LANGUAGE: German
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

| PATENT NO. | KIND | DATE | APPLICATION NO. | DATE |
|---|---|---|---|---|
| DE 2303336 | A1 | 19740725 | DE 1973-2303336 | 19730120 |
| DD 107571 | C | 19740812 | DD 1973-175058 | 19731203 |
| CS 178438 | P | 19770915 | CS 1973-8535 | 19731210 |
| CS 178442 | P | 19770915 | CS 1973-5704 | 19731210 |
| NO 141777 | B | 19800204 | NO 1973-4775 | 19731214 |
| NO 141777 | C | 19800521 | | |
| PL 91646 | P | 19770331 | PL 1974-168032 | 19740110 |
| FI 56472 | B | 19791031 | FI 1974-115 | 19740116 |
| FI 56472 | C | 19800211 | | |
| AU 7464605 | A1 | 19750717 | AU 1974-64605 | 19740117 |
| BE 809928 | A1 | 19740718 | BE 1974-139973 | 19740118 |
| NL 7400739 | A | 19740723 | NL 1974-739 | 19740118 |
| FR 2214407 | A1 | 19740819 | FR 1974-1727 | 19740118 |
| ZA 7400396 | A | 19741127 | ZA 1974-396 | 19740118 |
| CH 584505 | A | 19770215 | CH 1974-707 | 19740118 |
| HU 170900 | P | 19770928 | HU 1974-SC459 | 19740118 |
| SU 580797 | D | 19771115 | SU 1974-1991123 | 19740118 |
| SE 401075 | B | 19780424 | SE 1974-666 | 19740118 |
| SE 401075 | C | 19780803 | | |
| RO 68496 | B | 19790815 | RO 1974-77325 | 19740118 |
| RO 68496 | P | 19800115 | | |
| RO 69339 | P | 19800715 | RO 1974-84790 | 19740118 |
| JP 49102842 | A2 | 19740928 | JP 1974-9177 | 19740121 |
| AT 7400466 | A | 19751115 | AT 1974-466 | 19740121 |
| AT 331555 | B | 19760825 | | |
| GB 1460663 | A | 19770106 | GB 1974-2726 | 19740121 |
| CA 1013961 | A1 | 19770719 | CA 1974-190523 | 19740121 |
| PL 92143 | P | 19770331 | PL 1974-184009 | 19740810 |
| SU 667094 | D | 19790605 | SU 1975-2126029 | 19750418 |
| DK 7502198 | A | 19750818 | DK 1975-2198 | 19750516 |
| AT 7504032 | A | 19760215 | AT 1975-4032 | 19750527 |
| AT 333073 | B | 19761110 | | |

PRIORITY APPLN. INFO.: DE 1973-2303336 19730120

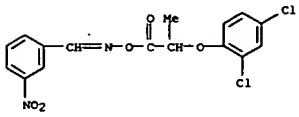
L11 ANSWER 52 OF 68 CAPLUS COPYRIGHT 2002 ACS (Continued)

| | | | |
|---|---|---|---|
| | | DK 1973-6311 | 19731122 |
| | | AT 1974-466 | 19740121 |

IT 54842-02-3
RL: AGR (Agricultural use); BAC (Biological activity or effector, except adverse); BIOL (Biological study); USES (Uses)
(herbicide)
RN 54842-02-3 CAPLUS
CN Benzonitrile, 3,5-diiodo-4-[[[[(1-methylethylidene)amino]oxy]carbonyl]oxy]-, mixt. with 3-nitrobenzaldehyde O-[2-(2,4-dichlorophenoxy)-1-oxopropyl]oxime (9CI) (CA INDEX NAME)

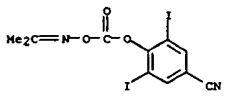
CM 1

CRN 53443-08-6
CMF C16 H12 Cl2 N2 O5



CM 2

CRN 50347-98-3
CMF C11 H8 I2 N2 O3

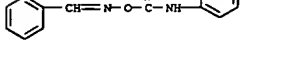


L11 ANSWER 53 OF 68 CAPLUS COPYRIGHT 2002 ACS
AB Compds. obtained by condensation of an oxime with an isocyanate are converted to amines by photolysis or thermolysis. This reaction can be visualized by a dye formation in the presence of a phenolic coupler and an
oxidant, the color change of an indicator dye, or by fluorescence emission. Thus, a soln. contg. PhCH:NOCONH-p-C6H4NEt2, prepd. by condensing p-diethylaminophenyl isocyanate with benzdoxime in Et2O, 100, a
phenolic coupler 100, m-chloroperbenzoic acid 40 mg, and a 5% poly(Me methacrylate) soln. in CH2Cl2 8 ml was coated on a BaSO4-impregnated paper
support at 6g/m2, dried, and exposed to a 1 kw uv lamp at 10 cm for 5 sec,
or passed through a Thermofax copier to produce a cyan copy.
ACCESSION NUMBER: 1975:92073 CAPLUS
DOCUMENT NUMBER: 82:92073
TITLE: Recording materials and process
INVENTOR(S): Mertens, Ludovicus M.
PATENT ASSIGNEE(S): Agfa-Gevaert
SOURCE: Belg., 30 pp.
CODEN: BEXXAL
DOCUMENT TYPE: Patent
LANGUAGE: French
FAMILY ACC. NUM. COUNT: 2
PATENT INFORMATION:

| PATENT NO. | KIND | DATE | APPLICATION NO. | DATE |
|---|---|---|---|---|
| BE 810213 | A2 | 19740729 | BE 1974-1005673 | 19740128 |
| GB 1458355 | A | 19761215 | GB 1973-4845 | 19740122 |
| US 3918973 | A | 19751111 | US 1974-437762 | 19740130 |

PRIORITY APPLN. INFO.: GB 1973-4845 19730131

IT 54711-46-5P
RL: SPN (Synthetic preparation); PREP (Preparation)
(prepn. of)
RN 54711-46-5 CAPLUS
CN Benzaldehyde, 2-nitro-, O-[[[4-(diethylamino)phenyl]amino]carbonyl]oxime (9CI) (CA INDEX NAME)

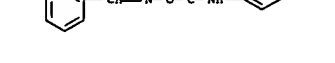


L11 ANSWER 54 OF 68 CAPLUS COPYRIGHT 2002 ACS
GI For diagram(s), see printed CA Issue.
AB Compds. R1R2C:NOCONR3R4(R1,R2,R3,R4 = H, alkyl, aryl, or heterocyclic groups) which upon exposure to an arc lamp or to heat liberate an amine capable of undergoing color reactions are used in photog. or thermog. recording compns. The amine precursors are coated with a polymeric binder
on a paper or film support. Thus, BaSO4-impregnated paper was coated with
6 g/m2 of a mixt. of PhCH:NO-CONHC6H4NEt2-p100, I 100, m-chlorobenzoic acid 40 mg, and a 5% soln. of poly(Me methacrylate) in CH2Cl2 8 ml. A 5 sec exposure of the paper to a 1 kW Hg lamp at 10 cm or in a Thermofax copier yielded cyan copies.
ACCESSION NUMBER: 1975:49921 CAPLUS
DOCUMENT NUMBER: 82:49921
TITLE: Recording with photolytic and/or thermolytic formation
of amino compounds
INVENTOR(S): Mertens, Ludovicus L.
PATENT ASSIGNEE(S): Agfa-Gevaert A.-G.
SOURCE: Ger. Offen., 24 pp.
CODEN: GWXXBX
DOCUMENT TYPE: Patent
LANGUAGE: German
FAMILY ACC. NUM. COUNT: 2
PATENT INFORMATION:

| PATENT NO. | KIND | DATE | APPLICATION NO. | DATE |
|---|---|---|---|---|
| DE 2403100 | A1 | 19740801 | DE 1974-2403100 | 19740123 |
| GB 1458355 | A | 19761215 | GB 1973-4845 | 19740122 |
| US 3918973 | A | 19751111 | US 1974-437762 | 19740130 |

PRIORITY APPLN. INFO.: GB 1973-4845 19730131

IT 54654-58-9P
RL: SPN (Synthetic preparation); PREP (Preparation)
(prepn. of)
RN 54654-58-9 CAPLUS
CN Benzaldehyde, 3-nitro-, O-[[[4-(diethylamino)phenyl]amino]carbonyl]oxime (9CI) (CA INDEX NAME)



L11 ANSWER 55 OF 68 CAPLUS COPYRIGHT 2002 ACS

AB Ninety-two ketoxime esters RnC6H5-nOCHR1-CO2N:CR2R3 [I, Rn = 2,4-Cl2, 2,4,5-Cl3, 3-Cl, 2,4-MeCl, 4-Br; R1 = H or Me; R2 = Me, H, Ph, Et, CH2CHMe2, or Pr; R3 =CHMeEt, Me, Ph, CH2CHMe2, C6H4NO2-3, Et, Pr, CHMe2, Bu, CH2OPh, C6H13, or CH2CH2OMe; or R2R3 = CH:CMeCH2CMe2CH2, (CH2)5, CH:CMeCH2CHMeCH2, (CH2)4, or CH2CHMeCH2CH2] were prepd. and used for weed control in plant cultures esp. in lawn. Thus, addn. of 2,4-Cl2C6H3OCH2-COCl to HON:CMeCHMeEt and Et3N in MeCN gave 92% I (Rn = 2,4-Cl2, R1 = H, R2 = Me, R3 = CHMeEt).

ACCESSION NUMBER: 1974:535752 CAPLUS
DOCUMENT NUMBER: 81:135752
TITLE: Herbicidal O-phenoxyacetylketoximes
INVENTOR(S): Nuesslein, Ludwig; Arndt, Friedrich
PATENT ASSIGNEE(S): Schering A.-G.
SOURCE: Ger. Offen., 35 pp.
CODEN: GWXXBX
DOCUMENT TYPE: Patent
LANGUAGE: German
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

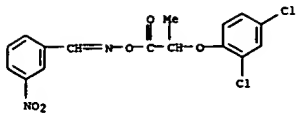
| PATENT NO. | KIND | DATE | APPLICATION NO. | DATE |
|---|---|---|---|---|
| DE 2262402 | A1 | 19740801 | DE 1972-2262402 | 19721215 |
| CS 170111 | P | 19760827 | CS 1973-7645 | 19731107 |
| ES 420904 | A1 | 19760501 | ES 1973-420904 | 19731127 |
| DD 108031 | C | 19740912 | DD 1973-175052 | 19731203 |
| CH 584510 | A | 19770215 | CH 1973-17131 | 19731206 |
| FI 55927 | C | 19791112 | FI 1973-3791 | 19731211 |
| FI 55927 | B | 19790731 | | |
| RO 68556 | P | 19810830 | RO 1973-76956 | 19731211 |
| FR 2327234 | A1 | 19770506 | FR 1973-44534 | 19731213 |
| FR 2327234 | B1 | 19780324 | | |
| BE 808636 | A1 | 19740614 | BE 1973-138864 | 19731214 |
| NL 7317222 | A | 19740618 | NL 1973-17222 | 19731214 |
| JP 49086539 | A2 | 19740819 | JP 1973-140203 | 19731214 |
| ZA 7309503 | A | 19741127 | ZA 1973-9503 | 19731214 |
| AT 7310483 | A | 19750515 | AT 1973-10483 | 19731214 |
| AT 328217 | B | 19760310 | | |
| AU 7363652 | A1 | 19750619 | AU 1973-63652 | 19731214 |
| SU 525417 | D | 19760815 | SU 1973-1978002 | 19731214 |
| HU 168995 | P | 19760828 | HU 1973-SC457 | 19731214 |
| PL 91626 | P | 19770331 | PL 1973-167329 | 19731214 |
| NO 139150 | C | 19790131 | NO 1973-4774 | 19731214 |
| NO 139150 | B | 19781009 | | |
| GB 1458825 | A | 19761215 | GB 1973-58373 | 19731217 |
| CA 1013587 | A1 | 19770712 | CA 1973-188263 | 19731217 |
| SU 511853 | D | 19760425 | SU 1974-1998451 | 19740218 |

PRIORITY APPLN. INFO.: DE 1972-2262402 19721215

IT **53443-08-6P**
RL: AGR (Agricultural use); BAC (Biological activity or effector, except adverse); SPN (Synthetic preparation); BIOL (Biological study); PREP (Preparation); USES (Uses)
(prepn. and herbicidal activity of)

RN 53443-08-6 CAPLUS
CN Benzaldehyde, 3-nitro-, O-[2-(2,4-dichlorophenoxy)-1-oxopropyl]oxime (9CI)
(CA INDEX NAME)

L11 ANSWER 55 OF 68 CAPLUS COPYRIGHT 2002 ACS (Continued)



L11 ANSWER 56 OF 68 CAPLUS COPYRIGHT 2002 ACS

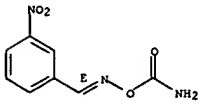
AB The structures assigned to the nitrones prepd. from aromatic aldehydes and solns. of potassium cyanate and hydroxylamine hydrochloride are shown to be incorrect and the deoxygenation reaction ascribed to them spurious. The correct product from the original reaction is demonstrated to be the corresponding O-carbamoyl oxime.

ACCESSION NUMBER: 1974:14448 CAPLUS
DOCUMENT NUMBER: 80:14448
TITLE: O-Carbamoyl oximes
AUTHOR(S): Dalton, David R.; Foley, H. Grant
CORPORATE SOURCE: Dep. Chem., Temple Univ., Philadelphia, Pa., USA
SOURCE: J. Org. Chem. (1973), 38(24), 4200-3
CODEN: JOCEAH
DOCUMENT TYPE: Journal
LANGUAGE: English

IT **41514-44-7P**
RL: SPN (Synthetic preparation); PREP (Preparation)
(prepn. of)

RN 41514-44-7 CAPLUS
CN Benzaldehyde, 3-nitro-, O-(aminocarbonyl)oxime, (E)- (9CI) (CA INDEX NAME)

Double bond geometry as shown.



L11 ANSWER 57 OF 68 CAPLUS COPYRIGHT 2002 ACS

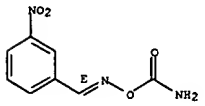
AB RC6H4CHO (R = 4-Br, 4-Cl, 3-O2N) with HONH2.HCl and KOCN gave the O-carbamolyl oximes (E)- RC6H4CH:NOCONH2 (I) and not RC6H4CN:N(O)CONH2 (Bellavita, V.; Cagnoli, N.; 1939). Ii with CNn- gave the oximes (E)-RC6H4CH:NOH (II). IIi, and their (Z)-isomers, with ClO2SNCO, followed by hydrolysi gave I. The configuration of I (R = 4-Br) was confirmed by x-ray anal. The monoclinic crystals, space group P21/c had a 14.39, b 5.101, c 12.5 .ANG., .beta. 99.51.degree., Z = 4. The structure was solved by Patterson and Fourier methods.

ACCESSION NUMBER: 1973:147493 CAPLUS
DOCUMENT NUMBER: 78:147493
TITLE: Unusual nitrones
AUTHOR(S): Dalton, D. R.; Foley, Henry G.; Trueblood, Kenneth N.;
Murphy, Michael R.
CORPORATE SOURCE: Dep. Chem., Temple Univ., Philadelphia, Pa., USA
SOURCE: Tetrahedron Lett. (1973), (10), 779-82
CODEN: TELEAY
DOCUMENT TYPE: Journal
LANGUAGE: English

IT **41514-44-7P**
RL: SPN (Synthetic preparation); PREP (Preparation)
(prepn. of)

RN 41514-44-7 CAPLUS
CN Benzaldehyde, 3-nitro-, O-(aminocarbonyl)oxime, (E)- (9CI) (CA INDEX NAME)

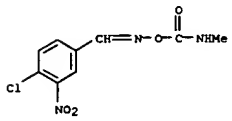
Double bond geometry as shown.



L11 ANSWER 58 OF 68 CAPLUS COPYRIGHT 2002 ACS
GI For diagram(s), see printed CA Issue.
AB Thirty title compds. [I, R = Cl-4 alkyl, tetradecyl, MeOCH2, allyl, cyclohexyl, substituted phenyl; R1 = H, Me, or 4,3-Cl(O2N)C6H3; R2 = H, 2-Me, 2- or 4-Cl; R3 = 2, 3, or 4-NO2], used as selective herbicides in beet cultures, were prepd. by reaction of oximes with isocyanates. Thus, m-O2NC6H4CH:NOH reacted with OCNMe in MeCN in the presence of Et3N at .ltoreq.30.degree. to give 74.0% I (R = Me, R1 = R2 = H, R3 = 3-NO2) (II).
In postemergent tests 8 kg II/ha killed all Galinsoga parviflora or Urtica urens without affecting beet plants.
ACCESSION NUMBER: 1973:29498 CAPLUS
DOCUMENT NUMBER: 78:29498
TITLE: Herbicidal nitrobenzaldoxime carbamates
INVENTOR(S): Stoelzer, Claus; Schmidt, Robert Rudolf
PATENT ASSIGNEE(S): Farbenfabriken Bayer A.-G.
SOURCE: Ger. Offen., 21 pp.
CODEN: GWXXBX
DOCUMENT TYPE: Patent
LANGUAGE: German
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

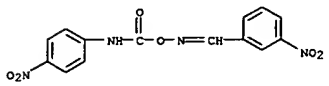
| PATENT NO. | KIND | DATE | APPLICATION NO. | DATE |
|---|---|---|---|---|
| DE 2120087 | A | 19721109 | DE 1971-2120087 | 19710424 |

IT 39089-83-3P 39089-84-4P 39089-85-5P 39089-86-6P 39089-87-7P 39089-88-8P 39089-89-9P 39089-90-2P 39089-91-3P 39089-94-6P 39089-95-7P 39089-96-8P 39089-97-9P 39089-98-0P 39089-99-1P 39090-00-1P 39090-01-2P 39090-02-3P 39090-04-5P 39090-06-7P 39102-00-6P 39102-01-7P 39102-02-8P 39102-03-9P
RL: SPN (Synthetic preparation); PREP (Preparation)
(prepn. of)
RN 39089-83-3 CAPLUS
CN Benzaldehyde, 4-chloro-3-nitro-, O-[(methylamino)carbonyl]oxime (9CI) (CA INDEX NAME)

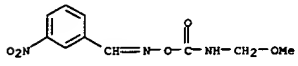


RN 39089-84-4 CAPLUS
CN Benzaldehyde, 3-nitro-, O-[[(1-methylethyl)amino]carbonyl]oxime (9CI) (CA INDEX NAME)

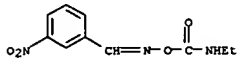
L11 ANSWER 58 OF 68 CAPLUS COPYRIGHT 2002 ACS (Continued)
INDEX NAME)



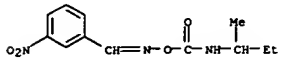
RN 39089-90-2 CAPLUS
CN Benzaldehyde, 3-nitro-, O-[[(methoxymethyl)amino]carbonyl]oxime (9CI) (CA INDEX NAME)



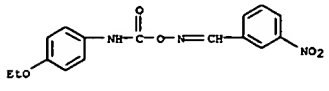
RN 39089-91-3 CAPLUS
CN Benzaldehyde, 3-nitro-, O-[(ethylamino)carbonyl]oxime (9CI) (CA INDEX NAME)



RN 39089-94-6 CAPLUS
CN Benzaldehyde, 3-nitro-, O-[[(1-methylpropyl)amino]carbonyl]oxime (9CI) (CA INDEX NAME)

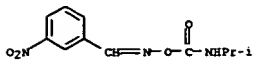


RN 39089-95-7 CAPLUS
CN Benzaldehyde, 3-nitro-, O-[[(4-ethoxyphenyl)amino]carbonyl]oxime (9CI) (CA INDEX NAME)

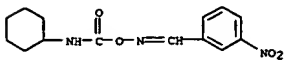


RN 39089-96-8 CAPLUS
CN Benzaldehyde, 3-nitro-, O-[(tetradecylamino)carbonyl]oxime (9CI) (CA

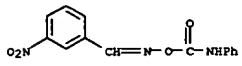
L11 ANSWER 58 OF 68 CAPLUS COPYRIGHT 2002 ACS (Continued)



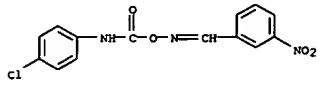
RN 39089-85-5 CAPLUS
CN Benzaldehyde, 3-nitro-, O-[(cyclohexylamino)carbonyl]oxime (9CI) (CA INDEX NAME)



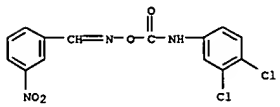
RN 39089-86-6 CAPLUS
CN Benzaldehyde, 3-nitro-, O-[(phenylamino)carbonyl]oxime (9CI) (CA INDEX NAME)



RN 39089-87-7 CAPLUS
CN Benzaldehyde, 3-nitro-, O-[[(4-chlorophenyl)amino]carbonyl]oxime (9CI) (CA INDEX NAME)

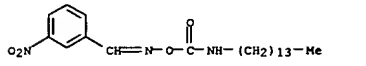


RN 39089-88-8 CAPLUS
CN Benzaldehyde, 3-nitro-, O-[[(3,4-dichlorophenyl)amino]carbonyl]oxime (9CI) (CA INDEX NAME)

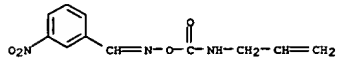


RN 39089-89-9 CAPLUS
CN Benzaldehyde, 3-nitro-, O-[[(4-nitrophenyl)amino]carbonyl]oxime (9CI) (CA

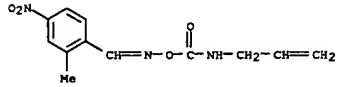
L11 ANSWER 58 OF 68 CAPLUS COPYRIGHT 2002 ACS (Continued)
INDEX NAME)



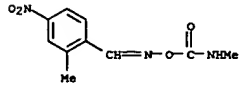
RN 39089-97-9 CAPLUS
CN Benzaldehyde, 3-nitro-, O-[(2-propenylamino)carbonyl]oxime (9CI) (CA INDEX NAME)



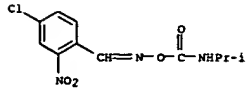
RN 39089-98-0 CAPLUS
CN Benzaldehyde, 2-methyl-4-nitro-, O-[(2-propenylamino)carbonyl]oxime (9CI) (CA INDEX NAME)



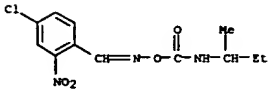
RN 39089-99-1 CAPLUS
CN Benzaldehyde, 2-methyl-4-nitro-, O-[(methylamino)carbonyl]oxime (9CI) (CA INDEX NAME)



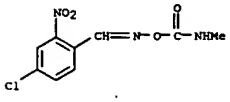
RN 39090-00-1 CAPLUS
CN Benzaldehyde, 4-chloro-2-nitro-, O-[[(1-methylethyl)amino]carbonyl]oxime (9CI) (CA INDEX NAME)



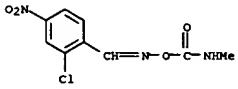
L11 ANSWER 58 OF 68 CAPLUS COPYRIGHT 2002 ACS (Continued)
RN 39090-01-2 CAPLUS
CN Benzaldehyde, 4-chloro-2-nitro-, O-[[(1-methylpropyl)amino]carbonyl]oxime (9CI) (CA INDEX NAME)



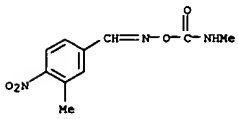
RN 39090-02-3 CAPLUS
CN Benzaldehyde, 4-chloro-2-nitro-, O-[(methylamino)carbonyl]oxime (9CI) (CA INDEX NAME)



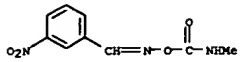
RN 39090-04-5 CAPLUS
CN Benzaldehyde, 2-chloro-4-nitro-, O-[(methylamino)carbonyl]oxime (9CI) (CA INDEX NAME)



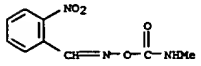
RN 39090-06-7 CAPLUS
CN Benzaldehyde, 3-methyl-4-nitro-, O-[(methylamino)carbonyl]oxime (9CI) (CA INDEX NAME)



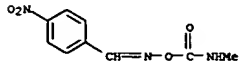
RN 39102-00-6 CAPLUS
CN Benzaldehyde, 3-nitro-, O-[(methylamino)carbonyl]oxime (9CI) (CA INDEX NAME)



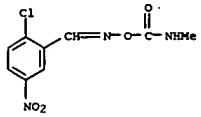
RN 39102-01-7 CAPLUS
CN Benzaldehyde, 2-nitro-, O-[(methylamino)carbonyl]oxime (9CI) (CA INDEX NAME)



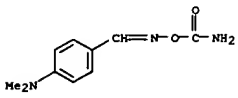
RN 39102-02-8 CAPLUS
CN Benzaldehyde, 4-nitro-, O-[(methylamino)carbonyl]oxime (9CI) (CA INDEX NAME)



RN 39102-03-9 CAPLUS
CN Benzaldehyde, 2-chloro-5-nitro-, O-[(methylamino)carbonyl]oxime (9CI) (CA INDEX NAME)

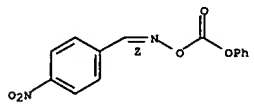


L11 ANSWER 59 OF 68 CAPLUS COPYRIGHT 2002 ACS
GI For diagram(s), see printed CA Issue.
AB The oximes p-RC6H4CH:NOCONH2 (R = NMe2, Cl, OMe) were obtained in 55% yield by treating p-RC6H4CHO with NH2OH and KCNO. Hydrolysis of p-RC6-H4CH:NOCONH2 with KCN or Na2CO3 gave p-RC6H4CH:NOH. Treatment of p-ClC6H4CH:NOH with 2-tetrahydropyranyl isocyanate of ClSO2NCO gave I or p-ClC6H4CH:NOCONHSO2Cl, resp., both or which were hydrolized to p-ClC6H4CN.
ACCESSION NUMBER: 1972:448002 CAPLUS
DOCUMENT NUMBER: 77:48002
TITLE: Hydroxylamine derivatives. 50. N-Carbamoyl oximes
AUTHOR(S): Zinner, Gerwalt; Ruthe, Helga
CORPORATE SOURCE: Inst. Pharm. Chem., Tech. Univ. Braunschweig, Brunswick, Ger.
SOURCE: Chem.-Ztg. (1972), 96(5), 287-8
CODEN: CMKZAT
DOCUMENT TYPE: Journal
LANGUAGE: German
IT **38927-03-6P**
RL: SPN (Synthetic preparation); PREP (Preparation)
(prepn. of)
RN 38927-03-6 CAPLUS
CN Benzaldehyde, 4-(dimethylamino)-, O-(aminocarbonyl)oxime (9CI) (CA INDEX NAME)



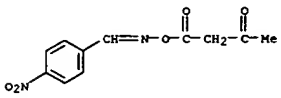
L11 ANSWER 60 OF 68 CAPLUS COPYRIGHT 2002 ACS
AB A new synthesis of nitriles is reported based on the pyrolysis of oxime carbonates.
ACCESSION NUMBER: 1971:404873 CAPLUS
DOCUMENT NUMBER: 75:4873
TITLE: Pyrolysis of oxime carbonates: novel conversion of aldehydes into nitriles under mild conditions
AUTHOR(S): Prokipcak, Joseph M.; Forte, P. A.
CORPORATE SOURCE: Dep. Chem., Univ. Guelph, Guelph, Ont., Can.
SOURCE: Can. J. Chem. (1971), 49(8), 1321-2
CODEN: CJCHAG
DOCUMENT TYPE: Journal
LANGUAGE: English
IT **33620-19-8P**
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation)
(prepn. and pyrolysis of)
RN 33620-19-8 CAPLUS
CN Benzaldehyde, p-nitro-, O-carboxyoxime phenyl ester, (Z)- (8CI) (CA INDEX NAME)

Double bond geometry as shown.



L11 ANSWER 61 OF 68 CAPLUS COPYRIGHT 2002 ACS
AB The hydrolyses of carboxylic acid esters were studied kinetically to further establish the ElcB mechanism as an acyl transfer path for esters. The principal feature of this mechanism is elimination of the leaving group from the carbanion formed from the ester by ionization at a position .alpha. to the ester group. Such carbanion species were observed spectrophotometrically with all of the above esters and appeared during hydrolysis under conditions ranging from steady state through fast preequil. The nature of the leaving group has emerged as an extremely important factor in detg. the relative contributions of the ElcB and BAc2 mechanisms. Yields of acetoacetanilide obtained from hydrolysis of p-nitrophenyl acetoacetate in the presence of aniline buffers have been exam. in detail and compared with the kinetics of p-nitrophenol release. These results as well as those establishing a change of rate-limiting step with increase in general base concn. and the D solvent isotope effect are fully in accord with an ElcB hydrolysis mechanism which proceeds by way of a transient free ketene after elimination of the leaving group from the carbanion.

ACCESSION NUMBER: 1970:519837 CAPLUS
DOCUMENT NUMBER: 73:119837
TITLE: The carbanion mechanism (ElcB) of ester hydrolysis. III. Some structure-reactivity studies and the ketene intermediate
AUTHOR(S): Pratt, R. F.; Bruice, Thomas C.
CORPORATE SOURCE: Dep. of Chem., Univ. of California, Santa Barbara, Calif., USA
SOURCE: J. Amer. Chem. Soc. (1970), 92(20), 5956-64
CODEN: JACSAT
DOCUMENT TYPE: Journal
LANGUAGE: English
IT **29817-01-4**
RL: RCT (Reactant)
(hydrolysis of, mechanism of)
RN 29817-01-4 CAPLUS
CN Benzaldehyde, p-nitro-, O-acetoacetyloxime (8CI) (CA INDEX NAME)

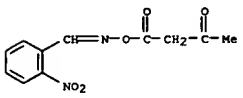


L11 ANSWER 62 OF 68 CAPLUS COPYRIGHT 2002 ACS
AB The subject compds., prepd. by the reaction of an aldoxime or ketoxime with diketene, show bactericidal activity. Thus, 36.6 g of a 55% soln. of diketene in Me2CO is added to 8.8 g (CH:NOH)2 in 143 g Et2O contg. 0.2 g triethylenediamine over 1 hr at 25-35.degree.. After 2 hr the mixt. is extd. with 5% aq. Na2CO3 to yield 20.2 g bis(O-acetoacetyl)glyoxime, m. 128-30.degree. (cyclohexane). The O-(acetoacetyl)oximes of the following carbonyl compds. are similarly prepd. (m.p. and yield in g given): Ph-CHO (I), 60-1.degree., 63.4; 3,4-Cl2C6H3CHO (II), 84-6.degree., 40.1; 2-O2NC6H4CHO 63-6.degree., 11.1; Ph2CO, 68-70.degree., 16.2; 3-chloro-7-cyanonorbornan-2-one, 87-9.degree., 12.3. I gives partial and II gives complete control of Staphylococcus aureus, Escherichia coli, Erwinia amylovora, and Xanthomonas malvacearum at 250 ppm in potato dextrose agar culture tests.

ACCESSION NUMBER: 1970:43163 CAPLUS
DOCUMENT NUMBER: 72:43163
TITLE: O-Acetoacetyl oximes
INVENTOR(S): Marcus, Erich; Hughes, John L.
PATENT ASSIGNEE(S): Union Carbide Corp.
SOURCE: U.S., 5 pp.
CODEN: USXXAM
DOCUMENT TYPE: Patent
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

| PATENT NO. | KIND | DATE | APPLICATION NO. | DATE |
|---|---|---|---|---|
| US 3483231 | A | 19691209 | US 1966-529217 | 19660223 |

IT **14146-72-6P**
RL: SPN (Synthetic preparation); PREP (Preparation)
(prepn. of)
RN 14146-72-6 CAPLUS
CN Benzaldehyde, o-nitro-, O-acetoacetyloxime (8CI) (CA INDEX NAME)

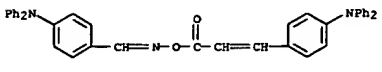


L11 ANSWER 63 OF 68 CAPLUS COPYRIGHT 2002 ACS
AB Title compds. are useful photoconductors in production of electrophotographic recording materials. Thus, to a soln. of 50 g 4-acetyltriphenyl-amine in tetrahydrofuran 3 equiv. aq. KClO2 was added under stirring. After 2 hr, concd. HCl was added, the ppt. filtered, and recrystd. from EtOH to give 72% p-Ph2NC6H4R (I, R = CO2H), m. 202-4.degree.. The following I were prepd. (R and m.p. given): CO2Me, 88.5-9.5.degree.; C 6H2(CO2Et)Ph2-4,3,5, 64-6.degree.; CH(OH)CH2C.tplbond.CH, ; CH2 oH, 93-4.degree.; C2H4OH, 121.degree.; CH(:NOH), 168-9.degree.; CMe(:NOH), 140-1.degree.; C6H12OH, (oil); C12H24OH, (oil); C2H4CO2H, 126-8.degree.; CONPh2, ; OH, 126-8.degree.; 2-OMe, 103-5.degree.; 2-OH, 106-8.degree.; CH(:NNHCONH2) 185-7.degree.; CMe(:NNHCONH2), 177-8.degree.. Also prepd. were the following 4-Ph2NC6H4(CR1:CR2)nX (R1, R2, n, X, and m.p. given): H, H, 1, CO2H, 175.7-7.7.degree.; H, H, 1, CO2Et, 70-2.degree.; H, H, 1, COCl, 122-4.degree.; H, H, 1, CONPh2, 201.5-3.5.degree.; H, H, 1, CO(O)COCH:CHC6H4NPh2-4, 152-6.degree.; Me, H, 1, CO2H, 191-2.degree.; H, C(CO2H):CHC6H4NPh2-4, 1, CO2H, 211-14.degree.; H, H, 1, H, (bO.cntdot.12 138.degree.); H, H, 1, CH(:NOH), 134-6.degree.; H, H, 2, cO2H, 86-91.degree.; H, H, 1, CO2N:CHC6H4NPh2-4, 174-8.degree.; H, H, 1, CO2CH2C6H4NPh2, 68-70.degree.; H, H, 2, CH(:NOH), ; H, H, 1, CO2Me, 108-9.degree.. Also prepd. was 1-(4-diphenylamino)-naphthacrylic acid, m. 247-8.degree., and 4-[N,N-bis(p-bromophenyl)-amino]cinnamic acid, m. 156-9.degree..

ACCESSION NUMBER: 1970:31416 CAPLUS
DOCUMENT NUMBER: 72:31416
TITLE: Substituted triarylamines with improved photoconductivity
INVENTOR(S): Brantly, Thomas B.; Fox, Charles J.
PATENT ASSIGNEE(S): Eastman Kodak Company
SOURCE: Ger. Offen., 34 pp.
CODEN: GWXXBX
DOCUMENT TYPE: Patent
LANGUAGE: German
FAMILY ACC. NUM. COUNT: 2
PATENT INFORMATION:

| PATENT NO. | KIND | DATE | APPLICATION NO. | DATE |
|---|---|---|---|---|
| DE 1908346 | A | 19691113 | DE 1969-1908346 | 19690219 |
| FR 2002221 | A5 | 19691017 | FR 1969-3822 | 19690217 |
| BR 6906472 | A0 | 19730118 | BR 1969-206472 | 19690219 |
| GB 1258094 | A | 19711222 | GB 1969-1258094 | 19690220 |
| PRIORITY APPLN. INFO.: | | | US 1968-706799 | 19680220 |
| | | | US 1968-706780 | 19680220 |

IT **25069-78-7P**
RL: SPN (Synthetic preparation); PREP (Preparation)
(prepn. of)
RN 25069-78-7 CAPLUS
CN Benzaldehyde, p-(diphenylamino)-, O-[p-(diphenylamino)cinnamoyl]oxime (8CI) (CA INDEX NAME)



L11 ANSWER 63 OF 68 CAPLUS COPYRIGHT 2002 ACS (Continued)

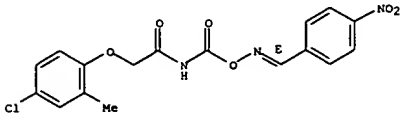
L11 ANSWER 64 OF 68 CAPLUS COPYRIGHT 2002 ACS

AB The title reaction proceeds vigorously at room temp. Aliphatic aldoximes, such as MeCH:NOH, give with RCONCO (I) (R is CH2F, CH2Cl, Et, PhOCH2, o-MeC6H4OCH2, o,p-Cl2C6H3OCH2, p-O2NC6H4OCH2, Ph, p-ClC6H4, or p-O2NC6H4) at room temp. only the corresponding RCONH2, MeCN, and CO2. The products of the aromatic aldoximes R1CH:NOH with I are RCONHCO2N:CHR1 (II) (R and R1 given): CH2F, Ph; CH2Cl, Ph; Et, Ph; PhOCH2, Ph; o-MeC6H4OCH2, Ph; o,p-Me-ClC6H3OCH2, Ph; o,p-MeClC6H3OCH2, Ph; o,p-Cl2C6H3OCH2, Ph; p-O2NC6H4OCH2, Ph; Ph, Ph; p-ClC6H4, Ph; p-O2NC6H4, Ph; p-O2NC6H4, p-O2NC6H4; o,p-Cl2C6H4, p-O2NC5H4; p-O2-NC6H4OCH2, p-Me2NC6H4; p-O2NC6H4, p-Me2NC6H4. However, at -5.degree. to 0.degree., MeCH:NOH reacted with I (R = o,p-Me-ClC6H3OCH2) to give 70% II (R = o,p-MeClC6H3OCH2, R1 = Me). The reaction at room temp. gave only o,p-MeClC6H3-OCH2CONH2, MeCN, and CO2. The hydrolysis of II with NaOH gave RCO2H and R1CH:NOH, which proves that stable II exist only in syn configuration.

ACCESSION NUMBER: 1969:438478 CAPLUS
DOCUMENT NUMBER: 71:38478
TITLE: Acylisocyanates and their derivatives. III. Reaction of aldoximes with acyl isocyanates
AUTHOR(S): Nuridzhanyan, K. A.; Nesterova, L. M.; Vasil'ev, A. F.; Negrebetskii, V. V.
CORPORATE SOURCE: Vses. Nauch.-Issled. Inst. Khim. Sredstv Zashchity Rast., Moscow, USSR
SOURCE: Zh. Org. Khim. (1969), 5(5), 869-74
CODEN: ZORKAE
DOCUMENT TYPE: Journal
LANGUAGE: Russian
IT **22998-04-5P 22998-05-6P 22998-06-7P 22998-07-8P 22998-08-9P**
RL: SPN (Synthetic preparation); PREP (Preparation)
(prepn. of)

RN 22998-04-5 CAPLUS
CN Benzaldehyde, p-nitro-, O-[[[(4-chloro-o-tolyl)oxy]acetyl]carbamoyl]oxime, (E)- (8CI) (CA INDEX NAME)

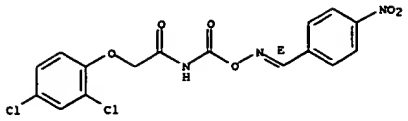
Double bond geometry as shown.



RN 22998-05-6 CAPLUS
CN Benzaldehyde, p-nitro-, O-[[(2,4-dichlorophenoxy)acetyl]carbamoyl]oxime, (E)- (8CI) (CA INDEX NAME)

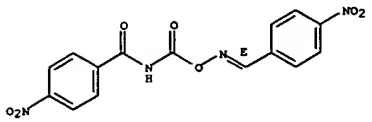
Double bond geometry as shown.

L11 ANSWER 64 OF 68 CAPLUS COPYRIGHT 2002 ACS (Continued)



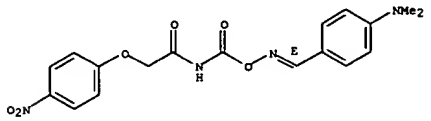
RN 22998-06-7 CAPLUS
CN Benzaldehyde, p-nitro-, O-[(p-nitrobenzoyl)carbamoyl]oxime, (E)- (8CI) (CA INDEX NAME)

Double bond geometry as shown.



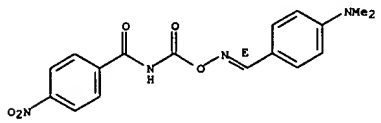
RN 22998-07-8 CAPLUS
CN Benzaldehyde, p-(dimethylamino)-, O-[[(p-nitrophenoxy)acetyl]carbamoyl]oxime, (E)- (8CI) (CA INDEX NAME)

Double bond geometry as shown.



RN 22998-08-9 CAPLUS
CN Benzaldehyde, p-(dimethylamino)-, O-[(p-nitrobenzoyl)carbamoyl]oxime, (E)- (8CI) (CA INDEX NAME)

Double bond geometry as shown.



L11 ANSWER 64 OF 68 CAPLUS COPYRIGHT 2002 ACS (Continued)

L11 ANSWER 65 OF 68 CAPLUS COPYRIGHT 2002 ACS

AB The title compds. useful as insecticides, animal systemic parasiticides, herbicides, and foliage fungicides have the formula I. The intermediate 3-(diethoxyphosphinothioyl) benzaldehyde (II), n30D 1.5239 was prepd. in 99.5% yield by refluxing 24.4 g. 3-hydroxybenzaldehyde, 37.8 g. O,O-diethylphos-phorochloridothioate, and 16.4 g. K2CO3 in 200 ml. Me Et ketone 4 hrs., the mixt. poured into 300 ml. H2O and twice extd. with CHCl3, 7.5 g. Na2CO3.H2O added to a mixt. of 27.4 g. II and 7.6 g. hydroxylamine hydrochloride in 300 ml. H2O at room temp. in 20 min., and the mixt. stirred one hr. and extd. with C6H6 to give 68.3% 3-(diethoxyphosphinothioyl)benzaldoxime (III), n30D 1.5460. III (10 g.) in 10 ml. acetone was treated with excess MeNCO and poured into 200 ml. C6H6 to give 93.3% 3-(dieth-oxyphosphinothioyl) benzaldoxime methylcarbamate, n30D 1.5394. Similarly prepd. in 96.9% yield was 4'-(diethoxyphosphino-thioyl)acetophenone oxime methylcarbamate. A mixt. of 56.2 g. 4'-(diethoxyphosphinothioyl)acetophenone, 17.4 g. hydroxylamine hydrochloride, and 4 g. NaOH in 150 ml. 80% EtOH was refluxed 5 min., cooled, and acidified with concd. HCl to give 93.5% 4'-(diethoxyphosphinothioyl)acetophenone oxime (IV), n30D 1.5393. A mixt. of 10.0 g. IV, 3.2 g. AcCl, 4.1 g. Et3N, and 150 ml. C6H6 was refluxed one hr. to give 96.5% 4'-(diethoxy-phosphinothioyl)acetophenone oxime acetate, n30D 1.5279. A soln. of 14.5 g. 4-(diethoxyphosphinothioyl)benzaldoxime. (V) in 50 ml. Et2O was added in 30 min. at 10.degree. to 7 g. phosgene in 150 ml. Et2O, the mixt. stirred one hr. at 15.degree., a soln. of 17.4 g. morpholine in 10 ml. H2O added at <15.degree., and the mixt. stirred two hrs. at room temp. and worked up to give 89.8% 4-(diethoxy-phosphinothioyl)benzaldoxime 4-morpholinecarboxylate, n30D 1.5423. Similarly 14.5 g. V, 7 g. phosgene, and 8.6 g. N,N-dimethylaniline treated with 6.1 g. ethanolamine and 10 ml. H2O at <15.degree. gave 94.8% 4-(diethoxyphosphinothioyl)benzaldoxime (.beta.-hydroxyethyl)carbamate (VI), n30D 1.5423. A soln. of 11.6 g. N,N-diethylethylenediamine in 10 ml. H2O was added dropwise at <15.degree. to VI in Et2O soln. to give 51.8% 4-(diethoxyphos-phinothioyl)benzaldoxime 2-(diethylamino)ethyl carbamate, n30D 1.5310. These procedures were followed to obtain the tabulated I (X = S, p = position of phenyl substitution by R2C:NOR3 relative to P-contg. group). The following VII were likewise prepd. (R, R1, and n30D given): H, CONHMe, 1.5280; H, CONHBu, 1.5130; Me, CONHMe, 1.5243; Me, CONHPr-iso, 1.5109. The compds. prepd. were tested as pre- and postemergent herbicides, as foliage fungicides, as insecticides, and for internal animal systematic activity.

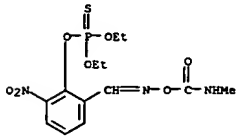
ACCESSION NUMBER: 1969:430236 CAPLUS
DOCUMENT NUMBER: 71:30236
TITLE: (O-Carbamoyl oxime), phosphate, phosphonate, and phosphinate compositions and their utility as herbicides and pesticides
INVENTOR(S): Gutman, Arnold D.
PATENT ASSIGNEE(S): Stauffer Chemical Co.
SOURCE: S. African, 80 pp.
CODEN: SFXXAB
DOCUMENT TYPE: Patent
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

| PATENT NO. | KIND | DATE | APPLICATION NO. | DATE |
|---|---|---|---|---|
| ZA 6803662 | | 19681108 | | |

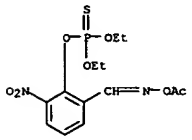
L11 ANSWER 65 OF 68 CAPLUS COPYRIGHT 2002 ACS (Continued)
PRIORITY APPLN. INFO.: US 19670616
US 19680520

IT **22936-26-1P 22936-27-2P 22936-28-3P**
**22936-40-9P 22936-41-0P 22939-83-9P**
**22939-85-1P 22939-86-2P 23107-33-7P**
RL: SPN (Synthetic preparation); PREP (Preparation)
(prepn. of)

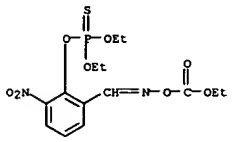
RN 22936-26-1 CAPLUS
CN Phosphorothioic acid, O,O-diethyl ester, O-ester with 3-nitrosalicylaldehyde O-(methylcarbamoyl)oxime (8CI) (CA INDEX NAME)



RN 22936-27-2 CAPLUS
CN Phosphorothioic acid, O,O-diethyl ester, O-ester with 3-nitrosalicylaldehyde O-acetyloxime (8CI) (CA INDEX NAME)

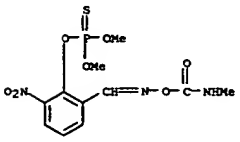


RN 22936-28-3 CAPLUS
CN Phosphorothioic acid, O,O-diethyl ester, O-ester with 3-nitrosalicylaldehyde O-(ethoxycarbonyl)oxime (8CI) (CA INDEX NAME)

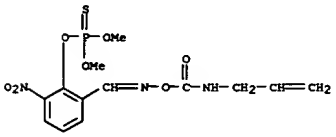


RN 22936-40-9 CAPLUS
CN Phosphorothioic acid, O,O-dimethyl ester, O-ester with

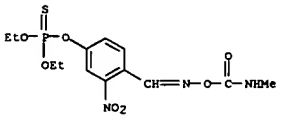
L11 ANSWER 65 OF 68 CAPLUS COPYRIGHT 2002 ACS (Continued)
3-nitrosalicylaldehyde O-(methylcarbamoyl)oxime (8CI) (CA INDEX NAME)



RN 22936-41-0 CAPLUS
CN Phosphorothioic acid, O,O-dimethyl ester, O-ester with 3-nitrosalicylaldehyde O-(allylcarbamoyl)oxime (8CI) (CA INDEX NAME)

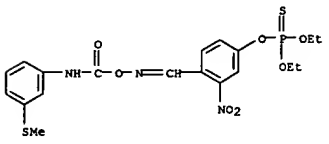


RN 22939-83-9 CAPLUS
CN Phosphorothioic acid, O,O-diethyl ester, O-ester with 4-hydroxy-2-nitrobenzaldehyde O-(methylcarbamoyl)oxime (8CI) (CA INDEX NAME)

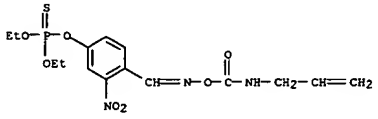


RN 22939-85-1 CAPLUS
CN Phosphorothioic acid, O,O-diethyl ester, O-ester with 4-hydroxy-2-nitrobenzaldehyde O-[[m-(methylthio)phenyl]carbamoyl]oxime (8CI) (CA INDEX NAME)

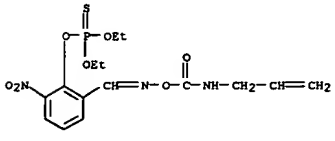
L11 ANSWER 65 OF 68 CAPLUS COPYRIGHT 2002 ACS (Continued)



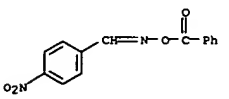
RN 22939-86-2 CAPLUS
CN Phosphorothioic acid, O,O-diethyl ester, O-ester with 4-hydroxy-2-nitrobenzaldehyde O-(allylcarbamoyl)oxime (8CI) (CA INDEX NAME)



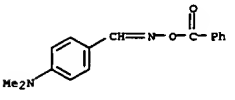
RN 23107-33-7 CAPLUS
CN Phosphorothioic acid, O,O-diethyl ester, O-ester with 3-nitrosalicylaldehyde O-(allylcarbamoyl)oxime (8CI) (CA INDEX NAME)



L11 ANSWER 66 OF 68 CAPLUS COPYRIGHT 2002 ACS
AB The pyrolytic elimination of BzOH from 8 substituted benzoyl-.alpha.-benzaldoximes to yield the corresponding substituted benzonitriles shows first-order kinetics in 5 solvents. The plot of log k vs. .sigma. is linear for this reaction in the solvents Tetralin, o-di-chlorobenzene, Me2SO, and AcNHMe, but not HCONMe2, in which competing base catalysis by the solvent occurs. Thermodynamic parameters and small neg. values for .rho. indicate that the reaction mechanism is essentially synchronous. Catalysis by a wide range of metal salts was observed. 26 references.
ACCESSION NUMBER: 1968:29150 CAPLUS
DOCUMENT NUMBER: 68:29150
TITLE: Pyrolysis of benzoyl-.alpha.-benzaldoximes. I. Effect of substitution, solvents, and catalysts
AUTHOR(S): Hill, John H. M.; Schmookler, Linda D.
CORPORATE SOURCE: Hobart and William Smith Colleges, Geneva, N. Y., USA
SOURCE: J. Org. Chem. (1967), 32(12), 4025-9
CODEN: JOCEAH
DOCUMENT TYPE: Journal
LANGUAGE: English
IT **3848-35-9 4058-69-9**
RL: RCT (Reactant)
(pyrolysis of, solvent and substituent effects in)
RN 3848-35-9 CAPLUS
CN Benzaldehyde, 4-nitro-, O-benzoyloxime (9CI) (CA INDEX NAME)

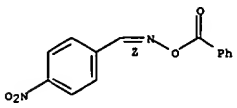


RN 4058-69-9 CAPLUS
CN Benzaldehyde, 4-(dimethylamino)-, O-benzoyloxime (9CI) (CA INDEX NAME)

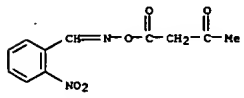


L11 ANSWER 67 OF 68 CAPLUS COPYRIGHT 2002 ACS
GI For diagram(s), see printed CA Issue.
AB cf. CA 63: 7904d. Dipole moments of oxime O-acyl derivs. I-VII were measured in C6H6 or dioxane soln. and configurations and conformations were detd. by means of the previously described graphical method. In all derivs. the acyl group has a stable conformation s-trans as in esters and other similar compds. In benzoyl derivs. of benzaldoximes the double bond
C:N has a stable configuration syn.
ACCESSION NUMBER: 1967:463622 CAPLUS
DOCUMENT NUMBER: 67:63622
TITLE: Oxime derivatives. IX. Determination of configuration and conformation of acylated oximes on the basis of dipole moments
AUTHOR(S): Exner, Otto; Hollerova, J.; Jehlicka, Vladimir
CORPORATE SOURCE: Ust. Fys. Chem., Vys. Skola Chem. Technol., Prague, Czech.
SOURCE: Collect. Czech. Chem. Commun. (1967), 32(6), 2096-103
CODEN: CCCCAK
DOCUMENT TYPE: Journal
LANGUAGE: English
IT 18322-89-9
RL: PRP (Properties)
(stereochemistry of)
RN 18322-89-9 CAPLUS
CN Benzaldehyde, 4-nitro-, O-benzoyloxime, [C(Z)]- (9CI) (CA INDEX NAME)

Double bond geometry as shown.




L11 ANSWER 68 OF 68 CAPLUS COPYRIGHT 2002 ACS
GI For diagram(s), see printed CA Issue.
AB The reaction of diketene with oximes in the presence of 1,4-diazabicyclo[2.2.2]octane gave good yields of new derivs., of oximes, the O-acetoacetyl derivs. Attempted O-acetoacetylation of N-phenylpyruvamidoxime led to 4-acetyl-3-methyl-1-phenyl-3-pyrroline-2,5-dione 2-oxime (I) and the O-acetoacetylation of the oxime of dehydroacetic
acid gave 3,6-dimethyl-4H-pyrano [3,4-d]isoxazol-4-one.
ACCESSION NUMBER: 1967:54976 CAPLUS
DOCUMENT NUMBER: 66:54976
TITLE: Reactions of oximes with diketene
AUTHOR(S): Marcus, Erich; Chan, John K.; Hughes, John Lawrence
CORPORATE SOURCE: Chem. Div., Union Carbide Corp., South Charleston, W. Va., USA
SOURCE: J. Chem. Eng. Data (1967), 12(1), 151-3
CODEN: JCEAAX
DOCUMENT TYPE: Journal
LANGUAGE: English
IT 14146-72-6P
RL: SPN (Synthetic preparation); PREP (Preparation)
(prepn. of)
RN 14146-72-6 CAPLUS
CN Benzaldehyde, o-nitro-, O-acetoacetyloxime (8CI) (CA INDEX NAME)



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L12     STRUCTURE UPLOADED

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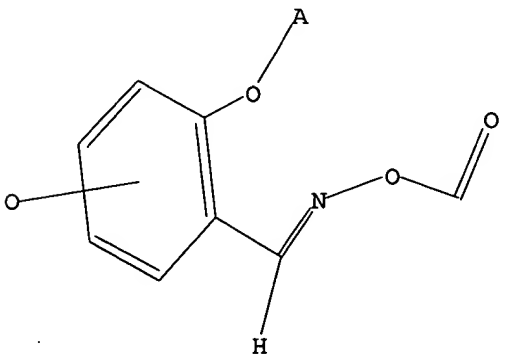


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SAMPLE SCREEN SEARCH COMPLETED -     85 TO ITERATE
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FULL FILE PROJECTIONS:  ONLINE  **COMPLETE**
                        BATCH   **COMPLETE**
PROJECTED ITERATIONS:         1147 TO     2253
PROJECTED ANSWERS:               8 TO      329

L13           8 SEA SSS SAM L12

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COST IN U.S. DOLLARS                                SINCE FILE      TOTAL
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FILE LAST UPDATED: 29 May 2002  (20020529/ED)

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the CAS Roles thesaurus (/RL field) in this file.

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L15           28 L14

=> d l15 1-28 abs ibib hitstr
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L15 ANSWER 1 OF 28 CAPLUS COPYRIGHT 2002 ACS

AB The title compn. contains alkali sol. compn. materials, oxime ester as a polymn. initiator, and photopolymg. materials, wherein the oxime ester has structure Ar1-C=NOR1(H) or M1-[-C=NOR1(H)]x ( R1 = cycloalkanoyl, benzoyl, alkenoyl; Ar1 = aryl, aroyl; M1 = 2, 3). The compn., which contain the oxime ester, provides the photoresist of the improved resoln. and shows the good storageability.

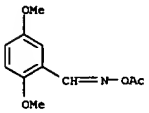
ACCESSION NUMBER: 2001:752027 CAPLUS
DOCUMENT NUMBER: 135:264637
TITLE: Light-sensitive photoresist composition containing oxime esters as polymerization initiator in fabrication of optical filters in optical imaging devices
INVENTOR(S): Oka, Hidetaka; Kunimoto, Kazuhiko; Kura, Hisatoshi; Ohwa, Masaki; Tanabe, Junichi
PATENT ASSIGNEE(S): Ciba Specialty Chemicals Holding Inc., Switz.
SOURCE: Fr. Demande, 110 pp.
CODEN: FRXXBL
DOCUMENT TYPE: Patent
LANGUAGE: French
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

| PATENT NO. | KIND | DATE | APPLICATION NO. | DATE |
|---|---|---|---|---|
| FR 2802655 | A1 | 20010622 | FR 2000-16309 | 20001214 |
| NL 1016814 | A1 | 20010618 | NL 2000-1016814 | 20001206 |
| NL 1016814 | C2 | 20020129 | | |
| GB 2357293 | A1 | 20010620 | GB 2000-29801 | 20001207 |
| SE 2000004565 | A | 20010725 | SE 2000-4565 | 20001211 |
| JP 2001235858 | A2 | 20010831 | JP 2000-376036 | 20001211 |
| US 2002020832 | A1 | 20020221 | US 2000-734635 | 20001212 |
| FI 2000002731 | A | 20010616 | FI 2000-2731 | 20001213 |
| DE 10061948 | A1 | 20010621 | DE 2000-10061948 | 20001213 |
| CN 1305124 | A | 20010725 | CN 2000-135063 | 20001214 |

PRIORITY APPLN. INFO.: EP 1999-811161 A 19991215
EP 2000-810630 A 20000717

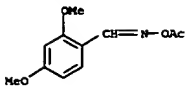
IT **122913-67-1P 362523-27-1P**
RL: SPN (Synthetic preparation); TEM (Technical or engineered material use); PREP (Preparation); USES (Uses)
(oxime in light-sensitive color filter compn.)

RN 122913-67-1 CAPLUS
CN Benzaldehyde, 2,5-dimethoxy-, O-acetyloxime (9CI) (CA INDEX NAME)



RN 362523-27-1 CAPLUS
CN Benzaldehyde, 2,4-dimethoxy-, O-acetyloxime (9CI) (CA INDEX NAME)

L15 ANSWER 1 OF 28 CAPLUS COPYRIGHT 2002 ACS (Continued)



L15 ANSWER 2 OF 28 CAPLUS COPYRIGHT 2002 ACS

AB The invention relates to a photopolymn. initiator of oxime ester for a photoresist compn., wherein the oxime is deriv. of Ar1-C=N-OR1(H) ( R1 = cycloalkanoyl, benzoyl, alkenoyl; Ar1 = aryl, aroyl). The photopolymn. initiator provides the alkali-developable light-sensitive photoresist compn., which shows the improved storageability, of the high resoln. and the good storageability.

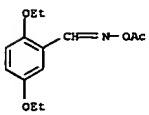
ACCESSION NUMBER: 2001:752026 CAPLUS
DOCUMENT NUMBER: 135:280493
TITLE: Photopolymerization initiator of oxime ester for light-sensitive photoresist composition
INVENTOR(S): Kunimoto, Kazuhiko; Oka, Hidetaka; Ohwa, Masaki; Tanabe, Junichi; Kura, Hisatoshi; Birbaum, Jean Luc
PATENT ASSIGNEE(S): Ciba Specialty Chemicals Holding Inc., Switz.
SOURCE: Fr. Demande, 171 pp.
CODEN: FRXXBL
DOCUMENT TYPE: Patent
LANGUAGE: French
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

| PATENT NO. | KIND | DATE | APPLICATION NO. | DATE |
|---|---|---|---|---|
| FR 2802528 | A1 | 20010622 | FR 2000-16306 | 20001214 |
| NL 1016815 | A1 | 20010618 | NL 2000-1016815 | 20001206 |
| GB 2358017 | B2 | 20020313 | GB 2000-29793 | 20001207 |
| US 2001012596 | A1 | 20010809 | US 2000-734625 | 20001212 |
| JP 2001233842 | A2 | 20010828 | JP 2000-377671 | 20001212 |
| FI 2000002730 | A | 20010616 | FI 2000-2730 | 20001213 |
| DE 10061947 | A1 | 20010621 | DE 2000-10061947 | 20001213 |
| CN 1299812 | A | 20010620 | CN 2000-135980 | 20001215 |
| BR 2000006379 | A | 20010724 | BR 2000-6379 | 20001215 |

PRIORITY APPLN. INFO.: EP 1999-811160 A 19991215
EP 2000-810629 A 20000717

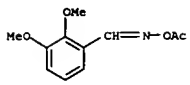
IT **362624-54-2P 362624-55-3P 362624-56-4P**
**362624-57-5P 362624-58-6P 362624-72-4P**
**362624-82-6P 362624-83-7P 362624-89-5P**
RL: CAT (Catalyst use); SPN (Synthetic preparation); PREP (Preparation); USES (Uses)
(light-sensitive color filter compn. contg. oxime esters used in optical imaging devices)

RN 362624-54-2 CAPLUS
CN Benzaldehyde, 2,5-diethoxy-, O-acetyloxime (9CI) (CA INDEX NAME)

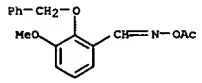


RN 362624-55-3 CAPLUS
CN Benzaldehyde, 2,3-dimethoxy-, O-acetyloxime (9CI) (CA INDEX NAME)

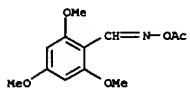
L15 ANSWER 2 OF 28 CAPLUS COPYRIGHT 2002 ACS (Continued)



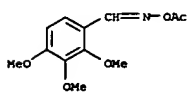
RN 362624-56-4 CAPLUS
CN Benzaldehyde, 3-methoxy-2-(phenylmethoxy)-, O-acetyloxime (9CI) (CA INDEX NAME)



RN 362624-57-5 CAPLUS
CN Benzaldehyde, 2,4,6-trimethoxy-, O-acetyloxime (9CI) (CA INDEX NAME)

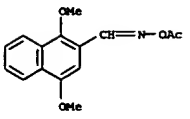


RN 362624-58-6 CAPLUS
CN Benzaldehyde, 2,3,4-trimethoxy-, O-acetyloxime (9CI) (CA INDEX NAME)

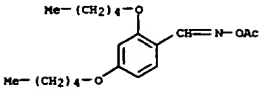


RN 362624-72-4 CAPLUS
CN 2-Naphthalenecarboxaldehyde, 1,4-dimethoxy-, O-acetyloxime (9CI) (CA INDEX NAME)

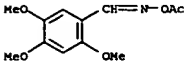
L15 ANSWER 2 OF 28 CAPLUS COPYRIGHT 2002 ACS (Continued)



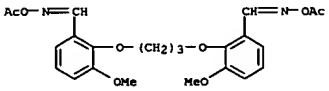
RN 362624-82-6 CAPLUS
CN Benzaldehyde, 2,4-bis(pentyloxy)-, O-acetyloxime (9CI) (CA INDEX NAME)



RN 362624-83-7 CAPLUS
CN Benzaldehyde, 2,4,5-trimethoxy-, O-acetyloxime (9CI) (CA INDEX NAME)



RN 362624-99-5 CAPLUS
CN Benzaldehyde, 2,2'-[1,3-propanediylbis(oxy)]bis[3-methoxy-, bis(O-acetyloxime) (9CI) (CA INDEX NAME)



L15 ANSWER 3 OF 28 CAPLUS COPYRIGHT 2002 ACS

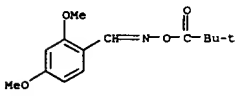
AB Photolyses of aldoxime esters, contg. a considerable range of alkyl groups, lead to cleavage of their N-O bonds and formation of aryliminyl and alkyl radicals. The process was found to be favored by 4-methoxyacetophenone as a photosensitizer and by methoxy substituents in the aryl rings. 4-Nitro- and pentafluoro-substitutions of the aryl rings were, on the other hand, deleterious. The intermediate iminyl radicals, together with primary, secondary and tertiary alkyl radicals were characterized by 9 GHz EPR spectroscopy. Cyclopropyl, CF3, and CCl3 radicals were probably also formed, but were too reactive for direct EPR spectroscopic detection. Photosensitized reaction of benzophenone oxime O-nonanoyl ester produced the diphenylmethaniminoxyl, as well as the expected n-octyl and iminyl radicals. This indicated that O-C bond scission accompanied O-N scission for this ketoxime ester. At higher temps. the C-centered radicals added to the starting oxime esters to produce alkoxyaminyl radicals that were also spectroscopically detected in some cases. No evidence for abstraction of the iminyl hydrogen by tert-butoxyl radicals was obtained. Instead, the t-BuO.bul. radicals added to the C:N double bonds of the oxime esters. Similarly, chlorine abstraction from alkylbenzohydroximoyl chlorides by trimethyltin radicals did not take place. Preparative scale expts. with oxime esters contg. suitably unsatd. alkyl groups showed that good yields of cyclised products could be obtained in the presence of the photosensitizer. This process constitutes a general method by which carboxylic acids or acid chlorides can be converted into alkyl radicals and hence to cyclized derivs.

ACCESSION NUMBER: 2000:832599 CAPLUS
DOCUMENT NUMBER: 134:178233
TITLE: Exploitation of aldoxime esters as radical precursors in preparative and EPR spectroscopic roles
AUTHOR(S): McCarroll, Andrew J.; Walton, John C.
CORPORATE SOURCE: University of St. Andrews, School of Chemistry, St Andrews, Fife, KY16 9ST, UK
SOURCE: Perkin 2 (2000), (12), 2399-2409
CODEN: PRKTFO; ISSN: 1470-1820
PUBLISHER: Royal Society of Chemistry
DOCUMENT TYPE: Journal
LANGUAGE: English
OTHER SOURCE(S): CASREACT 134:178233

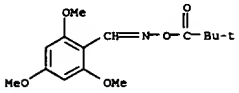
IT **265122-24-5P 265122-25-6P 265122-28-9P 265122-29-0P 265122-30-3P 265122-31-4P 265122-33-6P 265122-34-7P 265122-35-8P 265122-36-9P 326853-06-9P 326853-07-0P 326853-08-1P 326853-09-2P 326853-10-5P 326853-11-6P**
RL: PEP (Physical, engineering or chemical process); RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); PROC (Process); RACT (Reactant or reagent)
(photolysis; preparative and ESR studies of the photolysis of aldoxime esters as radical precursors)

RN 265122-24-5 CAPLUS
CN Benzaldehyde, 2,4-dimethoxy-, O-(2,2-dimethyl-1-oxopropyl)oxime (9CI) (CA INDEX NAME)

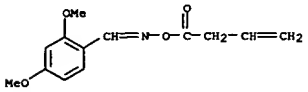
L15 ANSWER 3 OF 28 CAPLUS COPYRIGHT 2002 ACS (Continued)



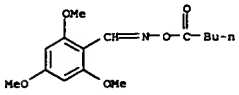
RN 265122-25-6 CAPLUS
CN Benzaldehyde, 2,4,6-trimethoxy-, O-(2,2-dimethyl-1-oxopropyl)oxime (9CI) (CA INDEX NAME)



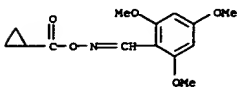
RN 265122-28-9 CAPLUS
CN Benzaldehyde, 2,4-dimethoxy-, O-(1-oxo-3-butenyl)oxime (9CI) (CA INDEX NAME)



RN 265122-29-0 CAPLUS
CN Benzaldehyde, 2,4,6-trimethoxy-, O-(1-oxopentyl)oxime (9CI) (CA INDEX NAME)

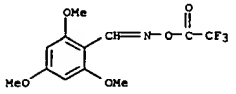


RN 265122-30-3 CAPLUS
CN Benzaldehyde, 2,4,6-trimethoxy-, O-(cyclopropylcarbonyl)oxime (9CI) (CA INDEX NAME)

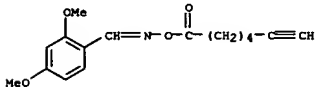


L15 ANSWER 3 OF 28 CAPLUS COPYRIGHT 2002 ACS (Continued)

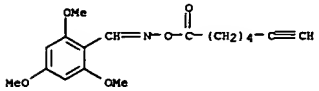
RN 265122-31-4 CAPLUS
CN Benzaldehyde, 2,4,6-trimethoxy-, O-(trifluoroacetyl)oxime (9CI) (CA INDEX NAME)



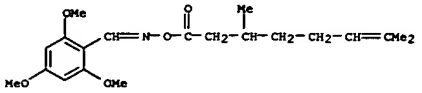
RN 265122-33-6 CAPLUS
CN Benzaldehyde, 2,4-dimethoxy-, O-(1-oxo-6-heptynyl)oxime (9CI) (CA INDEX NAME)



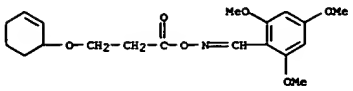
RN 265122-34-7 CAPLUS
CN Benzaldehyde, 2,4,6-trimethoxy-, O-(1-oxo-6-heptynyl)oxime (9CI) (CA INDEX NAME)



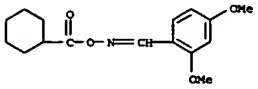
RN 265122-35-8 CAPLUS
CN Benzaldehyde, 2,4,6-trimethoxy-, O-(3,7-dimethyl-1-oxo-6-octenyl)oxime (9CI) (CA INDEX NAME)



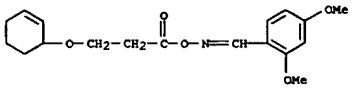
RN 265122-36-9 CAPLUS
CN Benzaldehyde, 2,4,6-trimethoxy-, O-[3-(2-cyclohexen-1-yloxy)-1-oxopropyl]oxime (9CI) (CA INDEX NAME)



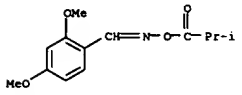
RN 326853-06-9 CAPLUS
CN Benzaldehyde, 2,4-dimethoxy-, O-(cyclohexylcarbonyl)oxime (9CI) (CA INDEX NAME)



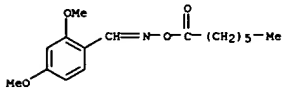
RN 326853-07-0 CAPLUS
CN Benzaldehyde, 2,4-dimethoxy-, O-[3-(2-cyclohexen-1-yloxy)-1-oxopropyl]oxime (9CI) (CA INDEX NAME)



RN 326853-08-1 CAPLUS
CN Benzaldehyde, 2,4-dimethoxy-, O-(2-methyl-1-oxopropyl)oxime (9CI) (CA INDEX NAME)

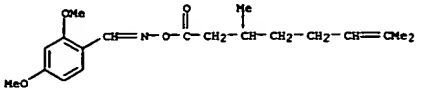


RN 326853-09-2 CAPLUS
CN Benzaldehyde, 2,4-dimethoxy-, O-(1-oxoheptyl)oxime (9CI) (CA INDEX NAME)

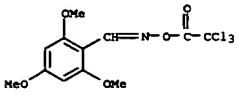




RN 326853-10-5 CAPLUS
CN Benzaldehyde, 2,4-dimethoxy-, O-(3,7-dimethyl-1-oxo-6-octenyl)oxime (9CI) (CA INDEX NAME)



RN 326853-11-6 CAPLUS
CN Benzaldehyde, 2,4,6-trimethoxy-, O-(trichloroacetyl)oxime (9CI) (CA INDEX NAME)



REFERENCE COUNT: 48 THERE ARE 48 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

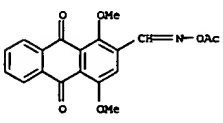


AB 2-(1-Hydroxyiminoalkyl)-1,4-dimethoxy-9,10-anthraquinones were demethylated to produce 2-(1-hydroxyiminoalkyl)-1,4-dihydroxy-9,10-anthraquinones (1,4-dihydroxy-9,10-anthraquinone, DHAQ), and oxime hydroxyl groups were in turn acylated to give the corresponding 2-(1-acyloxyiminoalkyl)-DHAQ derivs. The anti-proliferative activity of 2-(1-hydroxyiminoalkyl)-DHAQ derivs. was found to be dependent on the size of the alkyl chain. Thus, DHAQ analogs with alkyl chains longer than heptyl had negligible anti-proliferative activity, while those compds. possessing shorter chains demonstrated moderate anti-proliferative activity (ED50, 2.73-19.21 .mu.M). However, the antitumor activity as expressed by T/C values did not correlate with the anti-proliferative activity; 2-(1-hydroxyiminononyl)-DHAQ with an ED50 value of >20 .mu.M exhibited potent antitumor activity (T/C, 166%). Only four of the 2-(1-hydroxyiminoalkyl)-DHAQ analogs showed good antitumor activity (T/C, >150%): 2-(1-hydroxyiminobutyl)-DHAQ (T/C, 163%), 2-(1-hydroxyiminopentyl)-DHAQ (T/C, 180%) and 2-(1-hydroxyiminononyl)-DHAQ (T/C, 166%). Acylation of the hydroxyl group of these oximes enhanced the anti-proliferative activity and antitumor effects: 2-(1-propanoyloxyiminopropyl)-DHAQ (ED50, 4.41 .mu.M; T/C, 221%) vs. 2-(1-hydroxyiminopropyl)-DHAQ (ED50, 14.64 .mu.M; T/C, 100%) and 2-(1-propanoyloxyiminobutyl)-DHAQ (ED50, 2.65 .mu.M; T/C, 202%) vs. 2-(1-hydroxyiminobutyl)-DHAQ (ED50, 16.43 .mu.M; T/C, 163%).

ACCESSION NUMBER: 2000:459209 CAPLUS
DOCUMENT NUMBER: 133:222418
TITLE: Synthesis and evaluation of the antitumor activity of 2-substituted 1,4-dihydroxy-9,10-anthraquinones
AUTHOR(S): Tam, Mai-Ngoc; Nam, Nguyen-Hai; Jin, Guang-Zu; Song, Gyu-Yong; Ahn, Byung-Zun
CORPORATE SOURCE: Institute of Building Materials, Hanoi, Vietnam
SOURCE: Archiv der Pharmazie (Weinheim, Germany) (2000), 333(6), 189-194
CODEN: ARPMAS; ISSN: 0365-6233
PUBLISHER: Wiley-VCH Verlag GmbH
DOCUMENT TYPE: Journal
LANGUAGE: English

IT **291749-15-0P 291749-25-2P 291749-34-3P**
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)
(prepn. and antitumor activity of 2-substituted 1,4-dihydroxyanthraquinones)

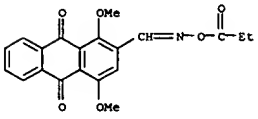
RN 291749-15-0 CAPLUS
CN 2-Anthracenecarboxaldehyde, 9,10-dihydro-1,4-dimethoxy-9,10-dioxo-, 2-(O-acetyloxime) (9CI) (CA INDEX NAME)



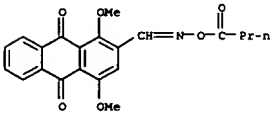
RN 291749-25-2 CAPLUS
CN 2-Anthracenecarboxaldehyde, 9,10-dihydro-1,4-dimethoxy-9,10-dioxo-,



2-[O-(1-oxopropyl)oxime] (9CI) (CA INDEX NAME)



RN 291749-34-3 CAPLUS
CN 2-Anthracenecarboxaldehyde, 9,10-dihydro-1,4-dimethoxy-9,10-dioxo-, 2-[O-(1-oxobutyl)oxime] (9CI) (CA INDEX NAME)



REFERENCE COUNT: 17 THERE ARE 17 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

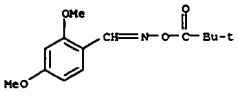
L15 ANSWER 5 OF 28 CAPLUS COPYRIGHT 2002 ACS

AB Arylmethaniminyl and alkyl radicals were generated from di- and tri-methoxyphenyl aldoxime esters, by photolysis in the presence of 4-methoxyacetophenone, and were detected by EPR spectroscopy: good yields of cyclized products were isolated from suitably unsatd. alkyl substituents.

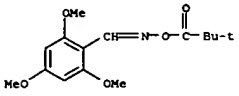
ACCESSION NUMBER: 2000:133509 CAPLUS
DOCUMENT NUMBER: 132:308008
TITLE: Enhanced radical delivery from aldoxime esters for EPR and ring closure applications
AUTHOR(S): McCarroll, Andrew J.; Walton, John C.
CORPORATE SOURCE: Sch. Chem., University of St. Andrews, St. Andrews, Fife, KY16 9ST, UK
SOURCE: Chemical Communications (Cambridge) (2000), (5), 351-352
CODEN: CHCOFS; ISSN: 1359-7345
PUBLISHER: Royal Society of Chemistry
DOCUMENT TYPE: Journal
LANGUAGE: English
OTHER SOURCE(S): CASREACT 132:308008

IT **265122-24-5 265122-25-6 265122-28-9 265122-29-0 265122-30-3 265122-31-4 265122-33-6 265122-34-7 265122-35-8 265122-36-9**
RL: RCT (Reactant); RACT (Reactant or reagent)
(photolysis; ESR study of arylmethaniminyl and alkyl radical formation in sensitized photolysis of aryl aldoxime esters and preparative decarboxylative cyclization of unsatd. carboxylic acids via aldoxime ester photolysis)

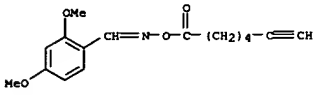
RN 265122-24-5 CAPLUS
CN Benzaldehyde, 2,4-dimethoxy-, O-(2,2-dimethyl-1-oxopropyl)oxime (9CI) (CA INDEX NAME)



RN 265122-25-6 CAPLUS
CN Benzaldehyde, 2,4,6-trimethoxy-, O-(2,2-dimethyl-1-oxopropyl)oxime (9CI) (CA INDEX NAME)

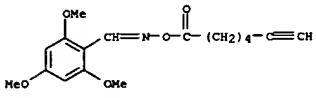


RN 265122-28-9 CAPLUS
CN Benzaldehyde, 2,4-dimethoxy-, O-(1-oxo-3-butenyl)oxime (9CI) (CA INDEX NAME)

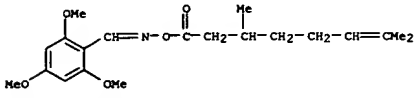


L15 ANSWER 5 OF 28 CAPLUS COPYRIGHT 2002 ACS (Continued)

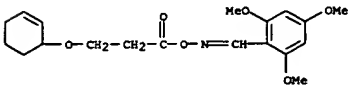
RN 265122-34-7 CAPLUS
CN Benzaldehyde, 2,4,6-trimethoxy-, O-(1-oxo-6-heptynyl)oxime (9CI) (CA INDEX NAME)



RN 265122-35-8 CAPLUS
CN Benzaldehyde, 2,4,6-trimethoxy-, O-(3,7-dimethyl-1-oxo-6-octenyl)oxime (9CI) (CA INDEX NAME)

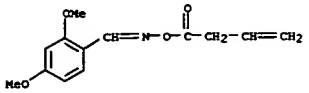


RN 265122-36-9 CAPLUS
CN Benzaldehyde, 2,4,6-trimethoxy-, O-[3-(2-cyclohexen-1-yloxy)-1-oxopropyl]oxime (9CI) (CA INDEX NAME)

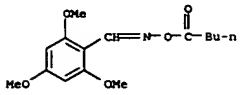


REFERENCE COUNT: 12 THERE ARE 12 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

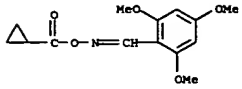
L15 ANSWER 5 OF 28 CAPLUS COPYRIGHT 2002 ACS (Continued)



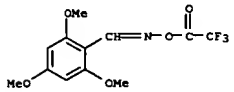
RN 265122-29-0 CAPLUS
CN Benzaldehyde, 2,4,6-trimethoxy-, O-(1-oxopentyl)oxime (9CI) (CA INDEX NAME)



RN 265122-30-3 CAPLUS
CN Benzaldehyde, 2,4,6-trimethoxy-, O-(cyclopropylcarbonyl)oxime (9CI) (CA INDEX NAME)



RN 265122-31-4 CAPLUS
CN Benzaldehyde, 2,4,6-trimethoxy-, O-(trifluoroacetyl)oxime (9CI) (CA INDEX NAME)



RN 265122-33-6 CAPLUS
CN Benzaldehyde, 2,4-dimethoxy-, O-(1-oxo-6-heptynyl)oxime (9CI) (CA INDEX NAME)

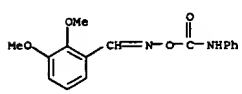
L15 ANSWER 6 OF 28 CAPLUS COPYRIGHT 2002 ACS

AB O-arylcarbamoylated hydroxylamine tosylate reacts with aldehydes at room temp. to give the corresponding O-carbamoylated oximes. The reaction of carbamoylated hydroxylamine with arom. aldehydes in THF or in toluene at reflux affords the corresponding nitriles and anilinium tosylate in high yield. Attempts to cyclize the O-carbamoylated oximes in the presence of AcCl lead again to the formation of nitriles.

ACCESSION NUMBER: 1999:631975 CAPLUS
DOCUMENT NUMBER: 132:3107
TITLE: Direct conversion of aldehydes to nitriles via O-phenylcarbamoylated aldoximes
AUTHOR(S): Coskun, Necdet; Arikan, Nevin
CORPORATE SOURCE: Department of Chemistry, Uludag University, Bursa, 16059, Turk.
SOURCE: Tetrahedron (1999), 55(40), 11943-11948
CODEN: TETRAB; ISSN: 0040-4020
PUBLISHER: Elsevier Science Ltd.
DOCUMENT TYPE: Journal
LANGUAGE: English
OTHER SOURCE(S): CASREACT 132:3107

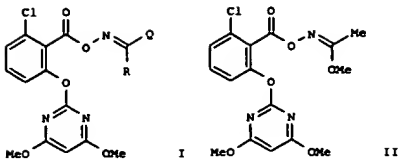
IT **250722-17-9P**
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)
(direct conversion of aldehydes to nitriles via O-phenylcarbamoylated aldoximes)

RN 250722-17-9 CAPLUS
CN Benzaldehyde, 2,3-dimethoxy-, O-[(phenylamino)carbonyl]oxime (9CI) (CA INDEX NAME)



REFERENCE COUNT: 12 THERE ARE 12 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L15 ANSWER 7 OF 28 CAPLUS COPYRIGHT 2002 ACS
GI



I II

AB New 6-chloro-2-[(4,6-dimethoxy-2-pyrimidinyl)oxy]benzoates [[2-[[(alkyeneamino)oxy]carbonyl]-1-chloro-3-phenoxy]pyrimidines] I (R = H, halo, cyano, etc.; Q = alkyl, alkenyl, cycloalkyl, etc.) were disclosed. I were claimed as herbicides. An example compd. 2-[1-chloro-[[[(1-methoxyethylidene)amino]oxy]carbonyl]phenoxy]-4,6-dimethoxypyrimidine (II) was prepd.

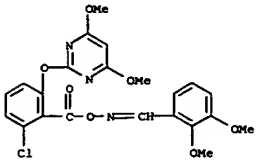
ACCESSION NUMBER: 1994:605344 CAPLUS
DOCUMENT NUMBER: 121:205344
TITLE: Novel 6-chloro-2-(4,6-dimethoxypyrimidin-2-yl) oxybenzoic acid ester derivatives, processes for their production and their application as herbicides.
INVENTOR(S): Hur, Chang Uk; Cho, Jin Ho; Lee, Ho Seong; Yoo, Sang Ku; Hong, Su Myeong; Kim, Hong Woo; Rim, Jae Suk; Bae, Yeong Tae; Chae, Sand Heon; et al.
PATENT ASSIGNEE(S): Lucky Ltd., S. Korea
SOURCE: Eur. Pat. Appl., 82 pp.
CODEN: EPXXDW
DOCUMENT TYPE: Patent
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

| PATENT NO. | KIND | DATE | APPLICATION NO. | DATE |
|---|---|---|---|---|
| EP 608862 | A1 | 19940803 | EP 1994-101132 | 19940126 |
| R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IE, IT, LI, LU, MC, NL, PT, SE | | | | |
| KR 9603323 | B1 | 19960308 | KR 1993-1017 | 19930127 |
| KR 9612180 | B1 | 19960916 | KR 1993-10097 | 19930604 |
| KR 9612179 | B1 | 19960916 | KR 1993-10098 | 19930604 |
| KR 9612181 | B1 | 19960916 | KR 1993-10099 | 19930604 |
| KR 9612194 | B1 | 19960916 | KR 1993-10100 | 19930604 |
| KR 9612195 | B1 | 19960916 | KR 1993-10101 | 19930604 |
| CN 1101345 | A | 19950412 | CN 1994-102665 | 19940126 |
| US 5494888 | A | 19960227 | US 1994-186589 | 19940126 |
| BR 9400365 | A | 19940816 | BR 1994-365 | 19940127 |
| JP 07149735 | A2 | 19950613 | JP 1994-7824 | 19940127 |
| JP 2543665 | B2 | 19961016 | | |

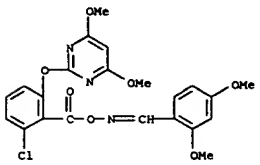
PRIORITY APPLN. INFO.: KR 1993-1017 A 19930127
KR 1993-10097 A 19930604
KR 1993-10098 A 19930604

L15 ANSWER 7 OF 28 CAPLUS COPYRIGHT 2002 ACS (Continued)
KR 1993-10099 A 19930604
KR 1993-10100 A 19930604
KR 1993-10101 A 19930604

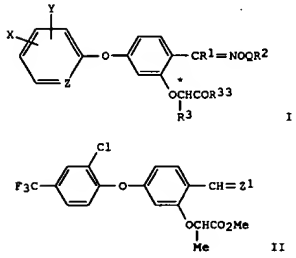
OTHER SOURCE(S): MARPAT 121:205344
IT 157990-33-5P 157990-35-7P
RL: AGR (Agricultural use); BAC (Biological activity or effector, except adverse); SPN (Synthetic preparation); BIOL (Biological study); PREP (Preparation); USES (Uses)
(prepn. of, as herbicide)
RN 157990-33-5 CAPLUS
CN Benzaldehyde, 2,3-dimethoxy-, O-[2-chloro-6-[(4,6-dimethoxy-2-pyrimidinyl)oxy]benzoyl]oxime (9CI) (CA INDEX NAME)



RN 157990-35-7 CAPLUS
CN Benzaldehyde, 2,4-dimethoxy-, O-[2-chloro-6-[(4,6-dimethoxy-2-pyrimidinyl)oxy]benzoyl]oxime (9CI) (CA INDEX NAME)



L15 ANSWER 8 OF 28 CAPLUS COPYRIGHT 2002 ACS
GI



I II

AB The title compds. [I; X, Y H, halo, CF3, C1-5 alkyl; Z = CH, N; R1 = H, HO, C1-5 alkyl or alkoxy; R2 = (un)substituted C1-10 (un)satd. aliph. hydrocarbon group, alkoxy, PhO, C6-20 arom. hydrocarbon group, NH2, C3-20 arom. heterocyclyl contg. at least one N atom.; R3 = C1-5 alkyl, Ph; R33 = HO, C1-5 (halo)alkyl, (halo)phenyl, carboxy- or alkoxycarbonyl-substituted C1-5 alkoxy, C1-5 alkenyloxy, (un)substituted NH2, NHP(O)(OR10)OR11; R10, R11 = H, C1-5 alkyl, Ph; Q = direct bond, CO, C(S), SO2; when Q = direct bond, R2 = (un)substituted alkoxy, PhO, or C6-20 arom. hydrocarbon group] are prepd. Thus, tosylation of Me (S)-(-)-lactate by tosyl chloride in benzene contg. Et3N and etherification of the resulting Me O-(p-toluenesulfonyl)-(S)-(-)-lactate with 2-hydroxy-4-(2-chloro-4-trifluoromethylphenoxy)benzaldehyde in refluxing MeCN contg. K2CO3 gave a benzaldehyde deriv. (II; Z1 = O) which was condensed with O-(4-nitrophenyl)hydroxylamine in THF contg. one drop of concd. HCl to give II (Z1 = NC6H4NO2-p) (III). III at 0.125 kg/ha postemergence completely controlled 9 weeds, e.g., Digitaria sp., Setaria viridis, and Abutilon avicennae. A mixt. III and N-(phosphonomethyl)glycine isopropylamine salt showed synergistic herbicidal activity against true glass and broad leaf weeds.

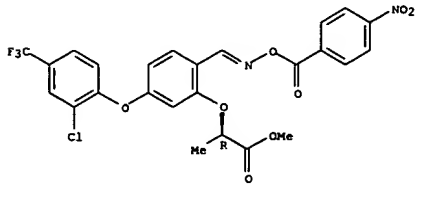
ACCESSION NUMBER: 1994:270126 CAPLUS
DOCUMENT NUMBER: 120:270126
TITLE: Preparation of pyridyloxy- and phenoxybenzaldehyde oxime derivatives as herbicides
INVENTOR(S): Azuma, Shizuo; Hiramatsu, Toshuki; Ichikawa, Yataro
PATENT ASSIGNEE(S): Teijin Ltd, Japan
SOURCE: Jpn. Kokai Tokkyo Koho, 45 pp.
CODEN: JKXXAF
DOCUMENT TYPE: Patent
LANGUAGE: Japanese
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

L15 ANSWER 8 OF 28 CAPLUS COPYRIGHT 2002 ACS (Continued)

| PATENT NO. | KIND | DATE | APPLICATION NO. | DATE |
|---|---|---|---|---|
| JP 05320117 | A2 | 19931203 | JP 1991-23791 | 19910125 |

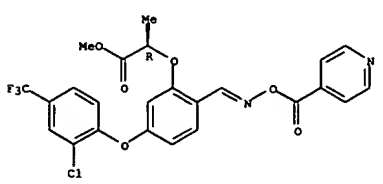
PRIORITY APPLN. INFO.: JP 1990-13478 19900125
OTHER SOURCE(S): MARPAT 120:270126
IT 154317-18-7P 154317-33-6P 154317-34-7P
154317-35-8P 154317-37-0P 154317-38-1P
154317-39-2P 154317-40-5P 154317-41-6P
154317-42-7P
RL: AGR (Agricultural use); BAC (Biological activity or effector, except adverse); SPN (Synthetic preparation); BIOL (Biological study); PREP (Preparation); USES (Uses)
(prepn. of, as herbicide)
RN 154317-18-7 CAPLUS
CN Propanoic acid, 2-[5-[2-chloro-4-(trifluoromethyl)phenoxy]-2-[[[(4-nitrobenzoyl)oxy]imino]methyl]phenoxy]-, methyl ester, (R)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.
Double bond geometry unknown.



RN 154317-33-6 CAPLUS
CN Propanoic acid, 2-[5-[2-chloro-4-(trifluoromethyl)phenoxy]-2-[[[(4-pyridinylcarbonyl)oxy]imino]methyl]phenoxy]-, methyl ester, (R)- (9CI) (CA INDEX NAME)

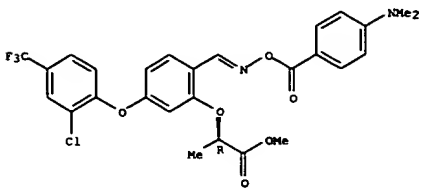
Absolute stereochemistry.
Double bond geometry unknown.



RN 154317-34-7 CAPLUS
CN Propanoic acid, 2-[5-[2-chloro-4-(trifluoromethyl)phenoxy]-2-[[[[4-

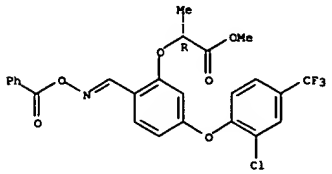
(dimethylamino)benzoyl]oxy]imino]methyl]phenoxy]-, methyl ester, (R)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.
Double bond geometry unknown.



RN 154317-35-8 CAPLUS
CN Propanoic acid, 2-[2-[[(benzoyloxy)imino]methyl]-5-[2-chloro-4-(trifluoromethyl)phenoxy]phenoxy]-, methyl ester, (R)- (9CI) (CA INDEX NAME)

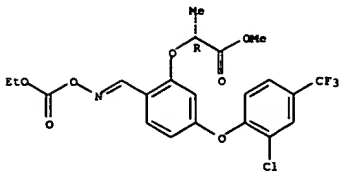
Absolute stereochemistry.
Double bond geometry unknown.



RN 154317-37-0 CAPLUS
CN Propanoic acid, 2-[5-[2-chloro-4-(trifluoromethyl)phenoxy]-2-[[[(ethoxycarbonyl)oxy]imino]methyl]phenoxy]-, methyl ester, (R)- (9CI) (CA INDEX NAME)

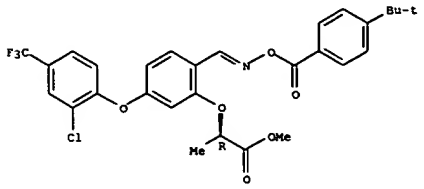
Absolute stereochemistry.
Double bond geometry unknown.





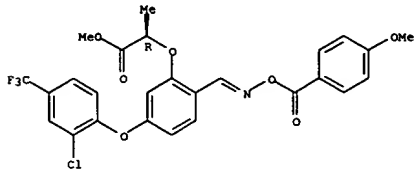
RN 154317-38-1 CAPLUS
CN Propanoic acid, 2-[5-[2-chloro-4-(trifluoromethyl)phenoxy]-2-[[[[4-(1,1-dimethylethyl)benzoyl]oxy]imino]methyl]phenoxy]-, methyl ester, (R)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.
Double bond geometry unknown.



RN 154317-39-2 CAPLUS
CN Propanoic acid, 2-[5-[2-chloro-4-(trifluoromethyl)phenoxy]-2-[[[(4-methoxybenzoyl)oxy]imino]methyl]phenoxy]-, methyl ester, (R)- (9CI) (CA INDEX NAME)

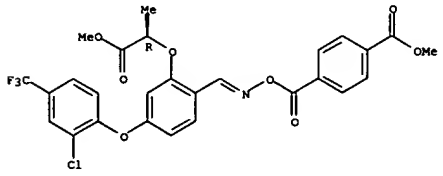
Absolute stereochemistry.
Double bond geometry unknown.





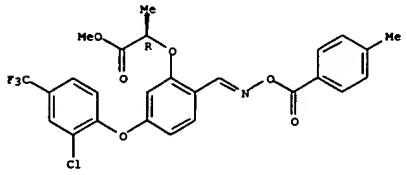
RN 154317-40-5 CAPLUS
CN Benzoic acid, 4-[[[[[4-[2-chloro-4-(trifluoromethyl)phenoxy]-2-(2-methoxy-1-methyl-2-oxoethoxy)phenyl]methylene]amino]oxy]carbonyl]-, methyl ester, (R)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.
Double bond geometry unknown.



RN 154317-41-6 CAPLUS
CN Propanoic acid, 2-[5-[2-chloro-4-(trifluoromethyl)phenoxy]-2-[[[(4-methylbenzoyl)oxy]imino]methyl]phenoxy]-, methyl ester, (R)- (9CI) (CA INDEX NAME)

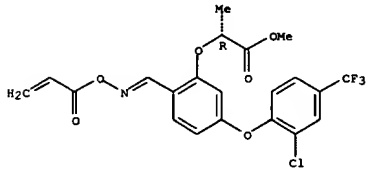
Absolute stereochemistry.
Double bond geometry unknown.



RN 154317-42-7 CAPLUS
CN Propanoic acid, 2-[5-[2-chloro-4-(trifluoromethyl)phenoxy]-2-[[[(1-oxo-2-propenyl)oxy]imino]methyl]phenoxy]-, methyl ester, (R)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.
Double bond geometry unknown.





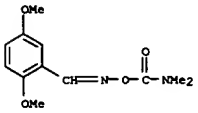
L15 ANSWER 9 OF 28 CAPLUS COPYRIGHT 2002 ACS

AB Thermal decompn. of syn-RCH:NOCONMe2 (I: R = 2-pyridyl, 4-C6H4NO2, Ph, 4-C6H4NMe2, 2,4- or 2,5-C6H3(OMe)2, 2-methyl- or 2-methoxy-4-dimethylaminophenyl, 2-methoxy-1-naphthyl] and syn-RCH:NOBz [II: R = Ph, 4-C6H4OMe, 2,4-C6H3(OMe)2, 2- or 4-methoxy-1-naphthyl, 1,5-C10H6SO2NEt2, 2-benzyloxy-1-naphthyl] at 80-130.degree. was kinetically studied. The decompn. was 1st-order for both I and II, and electron donating groups and substituents at the ortho position increased the reaction rates. Activation entropy values for I and II were very different and, hence, different decompn. mechanisms were proposed: .beta.-elimination with syn/anti isomerization for I and concerted elimination via a cyclic 6-membered ring transition for II.

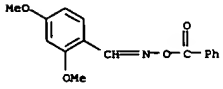
ACCESSION NUMBER: 1992:469340 CAPLUS
DOCUMENT NUMBER: 117:69340
TITLE: Reaction control of thermal decomposition of aromatic aldoxime derivatives as heat decomposing precursor compounds
AUTHOR(S): Kawata, Ken; Kitaguchi, Hiroshi; Sato, Kozo; Yabuki, Yoshiharu
CORPORATE SOURCE: Ashigara Res. Lab., Fuji Photo Film Co., Ltd., Kanagawa, 250-01, Japan
SOURCE: Senryo to Yakuhin (1992), 37(2), 33-40
CODEN: SETYAL; ISSN: 0370-9671
DOCUMENT TYPE: Journal
LANGUAGE: Japanese

IT **93369-34-7 99806-97-0 142554-03-8**
RL: PRP (Properties); RCT (Reactant)
(thermal decompn. of, kinetics of, substituent effect and mechanism in relation to)

RN 93369-34-7 CAPLUS
CN Benzaldehyde, 2,5-dimethoxy-, O-[(dimethylamino)carbonyl]oxime (9CI) (CA INDEX NAME)

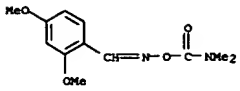


RN 99806-97-0 CAPLUS
CN Benzaldehyde, 2,4-dimethoxy-, O-benzoyloxime (9CI) (CA INDEX NAME)



RN 142554-03-8 CAPLUS
CN Benzaldehyde, 2,4-dimethoxy-, O-[(dimethylamino)carbonyl]oxime (9CI) (CA INDEX NAME)

L15 ANSWER 9 OF 28 CAPLUS COPYRIGHT 2002 ACS (Continued)



L15 ANSWER 10 OF 28 CAPLUS COPYRIGHT 2002 ACS

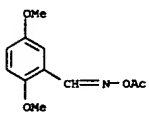
AB RCH2NR1CH2CONR2(OH) (I; R = insol. polymer residue; R1, R2 = alkyl), useful for selective deacylation in an org. solvent under neutral conditions, are prepd. by reaction of CH2Cl group-contg. polymers with N-hydroxy-N-alkyl(alkyl)aminoacetamides. Thus, 40 g MeNHOH.HCl was treated with 25 g MeNHCH2CO2Me in H2O/MeOH contg. NaOH to give 26 g MeNHCH2CONMe(OH), which was treated with 5 g Bio-Beads S-X1 (p-chloromethylstyrene-divinylbenzene copolymer) to give 4.7 g I (R = polymer residue; R1 = R2 = Me), which selectively deacetylated p-acetylaminophenyl acetate in EtOH at 45.degree. to give p-acetylaminophenol in 78% yield.

ACCESSION NUMBER: 1991:516809 CAPLUS
DOCUMENT NUMBER: 115:116809
TITLE: Polymer-supported deacylation agents.
INVENTOR(S): Ono, Mitsunori
PATENT ASSIGNEE(S): Fuji Photo Film Co., Ltd., Japan
SOURCE: Jpn. Kokai Tokkyo Koho, 8 pp.
CODEN: JKXXAF
DOCUMENT TYPE: Patent
LANGUAGE: Japanese
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

| PATENT NO. | KIND | DATE | APPLICATION NO. | DATE |
|---|---|---|---|---|
| JP 03072434 | A2 | 19910327 | JP 1989-186248 | 19890719 |
| US 5116994 | A | 19920526 | US 1990-509826 | 19900417 |
| PRIORITY APPLN. INFO.: | | | JP 1989-99225 | 19890419 |
| | | | JP 1989-186248 | 19890719 |

IT **122913-67-1**
RL: RCT (Reactant)
(deacetylation of, with hydroxamic acid derivs. fixed on polymer beads)

RN 122913-67-1 CAPLUS
CN Benzaldehyde, 2,5-dimethoxy-, O-acetyloxime (9CI) (CA INDEX NAME)



L15 ANSWER 11 OF 28 CAPLUS COPYRIGHT 2002 ACS

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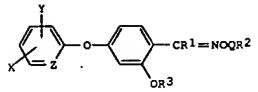


I

AB Oxime derivs. I (X, Y, Z, R1, R2, R3 and Q are defined) showed excellent herbicidal effect against broad- and narrow-leaved weeds and had quick acting herbicidal activity. Prepn. of these compds. by 2 different schemes is described. Thus, 3-(2-chloro-4-trifluoromethylphenoxy)phenol in CH2Cl2 was treated with TiCl4 then by dichloromethyl Me ether, and the product (2-hydroxy-4-(2-chloro-4-trifluoromethylphenoxybenzaldehyde) was refluxed with EtI, K2CO3 and MeEt ketone to give 2-ethoxy-4-(2-chloro-4-trifluoromethylphenoxy)benzaldehyde which was treated with NH2OH.HCl to give 2-ethoxy-4-(2-chloro-4-trifluoromethylphenyoxy)benzaldehyde oxime (I, R1 = R2 = H; R3 = Et; X = CF3; Y = Cl; Z = CH:) (II). Formulations of II at 0.5 kg/h were 100% effective against Abutilon theophrosti. I (R1 = R2 = H; R3 = CH(Me)CO2Me; X = CF3; Y = Cl; Z = -CH:) was 100% effective against Chenopodium album centrorubrum, Aranthus mangostanus, Astragalus sinicus, A. theophrosti, Solanum nigrum, and Xanthium strumarium.

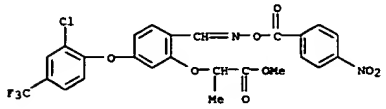
ACCESSION NUMBER: 1990:436398 CAPLUS
DOCUMENT NUMBER: 113:36398
TITLE: Oxime derivatives and herbicides containing the same as an active ingredient
INVENTOR(S): Azuma, Shizuo; Nakagawa, Koji; Hiramatsu, Toshiyuki; Ichikawa, Yataro
PATENT ASSIGNEE(S): Teijin Ltd., Japan
SOURCE: PCT Int. Appl., 148 pp.
CODEN: PIXXD2
DOCUMENT TYPE: Patent
LANGUAGE: Japanese
FAMILY ACC. NUM. COUNT: 2
PATENT INFORMATION:

| PATENT NO. | KIND | DATE | APPLICATION NO. | DATE |
|---|---|---|---|---|
| WO 9001874 | A1 | 19900308 | WO 1989-JP864 | 19890823 |
| W: AU, BG, DK, FI, HU, JP, KR, NO, RO, SU, US | | | | |
| RW: BE, CH, DE, FR, GB, IT, NL, SE | | | | |
| WO 9002113 | A1 | 19900308 | WO 1988-JP837 | 19880824 |
| W: AU, JP, KR, US | | | | |
| RW: CH, DE, FR, GB | | | | |
| AU 8940752 | A1 | 19900323 | AU 1989-40752 | 19890823 |
| AU 619038 | B2 | 19920116 | | |
| EP 433451 | A1 | 19910626 | EP 1989-909629 | 19890823 |
| R: BE, CH, DE, FR, GB, IT, LI, NL, SE | | | | |
| JP 04500074 | T2 | 19920109 | JP 1989-509021 | 19890823 |
| ZA 9001158 | A | 19901128 | ZA 1990-1158 | 19900215 |
| PRIORITY APPLN. INFO.: | | | WO 1988-JP837 | 19880824 |
| | | | JP 1989-30002 | 19890210 |
| | | | JP 1989-130002 | 19890210 |
| | | | WO 1989-JP864 | 19890823 |

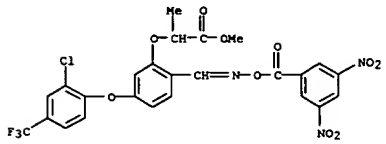
OTHER SOURCE(S): MARPAT 113:36398

IT 128079-35-6P 128079-36-7P 128079-37-8P
128079-38-9P 128079-39-0P 128079-40-3P
128079-42-5P 128079-43-6P 128079-44-7P
128079-45-8P 128079-46-9P 128079-47-0P
128079-48-1P 128079-49-2P 128079-50-5P
128079-51-6P 128079-52-7P 128079-53-8P
128079-54-9P 128079-55-0P 128079-57-2P
128079-58-3P 128079-59-4P 128079-60-7P
128079-61-8P 128079-62-9P 128079-63-0P
128079-64-1P 128079-65-2P 128079-66-3P
128079-67-4P 128079-68-5P 128079-69-6P
128079-70-9P 128079-71-0P 128079-73-2P
128079-74-3P 128079-75-4P 128096-69-5P
RL: AGR (Agricultural use); BAC (Biological activity or effector, except adverse); SPN (Synthetic preparation); BIOL (Biological study); PREP (Preparation); USES (Uses)
(prepn. and herbicidal activity of)

RN 128079-35-6 CAPLUS
CN Propanoic acid, 2-[5-[2-chloro-4-(trifluoromethyl)phenoxy]-2-[[[(4-nitrobenzoyl)oxy]imino]methyl]phenoxy]-, methyl ester (9CI) (CA INDEX NAME)

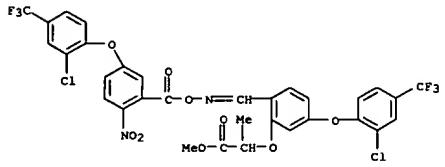


RN 128079-36-7 CAPLUS
CN Propanoic acid, 2-[5-[2-chloro-4-(trifluoromethyl)phenoxy]-2-[[[(3,5-dinitrobenzoyl)oxy]imino]methyl]phenoxy]-, methyl ester (9CI) (CA INDEX NAME)

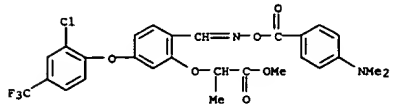


RN 128079-37-8 CAPLUS
CN Propanoic acid, 2-[5-[2-chloro-4-(trifluoromethyl)phenoxy]-2-[[[(2,4-dinitrobenzoyl)oxy]imino]methyl]phenoxy]-, methyl ester (9CI) (CA INDEX NAME)

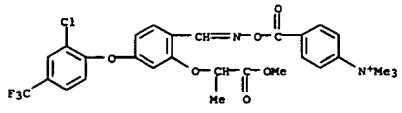




RN 128079-42-5 CAPLUS
CN Propanoic acid, 2-[5-[2-chloro-4-(trifluoromethyl)phenoxy]-2-[[[[4-(dimethylamino)benzoyl]oxy]imino]methyl]phenoxy]-, methyl ester (9CI) (CA INDEX NAME)



RN 128079-43-6 CAPLUS
CN Benzenaminium, 4-[[[[[4-[2-chloro-4-(trifluoromethyl)phenoxy]-2-(2-methoxy-1-methyl-2-oxoethoxy)phenyl]methylene]amino]oxy]carbonyl]-N,N,N-trimethyl-, iodide (9CI) (CA INDEX NAME)



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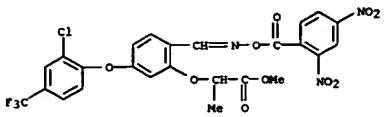
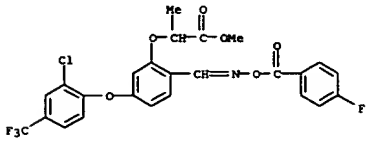
RN 128079-44-7 CAPLUS
CN Propanoic acid, 2-[5-[2-chloro-4-(trifluoromethyl)phenoxy]-2-[[[[4-(trifluoromethyl)benzoyl]oxy]imino]methyl]phenoxy]-, methyl ester (9CI) (CA INDEX NAME)

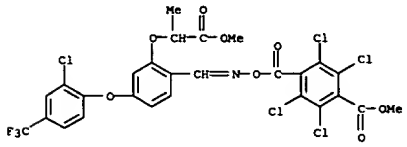




RN 128079-38-9 CAPLUS
CN Propanoic acid, 2-[5-[2-chloro-4-(trifluoromethyl)phenoxy]-2-[[[(4-fluorobenzoyl)oxy]imino]methyl]phenoxy]-, methyl ester (9CI) (CA INDEX NAME)

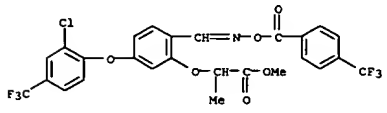


RN 128079-39-0 CAPLUS
CN Benzoic acid, 2,3,5,6-tetrachloro-4-[[[[[4-[2-chloro-4-(trifluoromethyl)phenoxy]-2-(2-methoxy-1-methyl-2-oxoethoxy)phenyl]methylene]amino]oxy]carbonyl]-, methyl ester (9CI) (CA INDEX NAME)

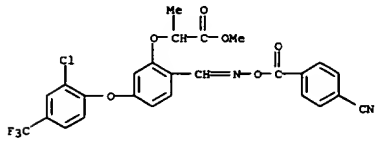


RN 128079-40-3 CAPLUS
CN Propanoic acid, 2-[5-[2-chloro-4-(trifluoromethyl)phenoxy]-2-[[[[5-[2-chloro-4-(trifluoromethyl)phenoxy]-2-nitrobenzoyl]oxy]imino]methyl]phenoxy]-, methyl ester (9CI) (CA INDEX NAME)

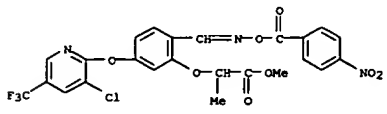




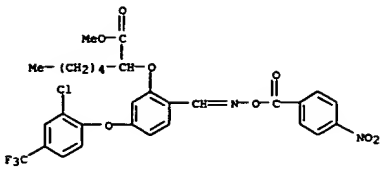
RN 128079-45-8 CAPLUS
CN Propanoic acid, 2-[5-[2-chloro-4-(trifluoromethyl)phenoxy]-2-[[[(4-cyanobenzoyl)oxy]imino]methyl]phenoxy]-, methyl ester (9CI) (CA INDEX NAME)



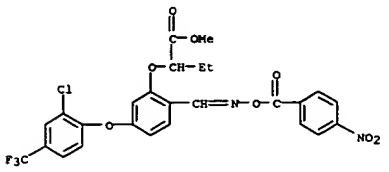
RN 128079-46-9 CAPLUS
CN Propanoic acid, 2-[5-[[3-chloro-5-(trifluoromethyl)-2-pyridinyl]oxy]-2-[[[(4-nitrobenzoyl)oxy]imino]methyl]phenoxy]-, methyl ester (9CI) (CA INDEX NAME)



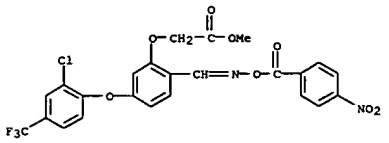
RN 128079-47-0 CAPLUS
CN Heptanoic acid, 2-[5-[2-chloro-4-(trifluoromethyl)phenoxy]-2-[[[(4-nitrobenzoyl)oxy]imino]methyl]phenoxy]-, methyl ester (9CI) (CA INDEX NAME)



RN 128079-48-1 CAPLUS
CN Butanoic acid, 2-[5-[2-chloro-4-(trifluoromethyl)phenoxy]-2-[[[(4-nitrobenzoyl)oxy]imino]methyl]phenoxy]-, methyl ester (9CI) (CA INDEX NAME)

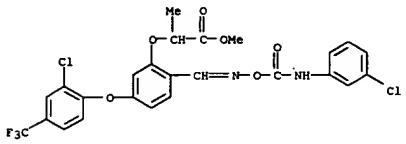


RN 128079-49-2 CAPLUS
CN Acetic acid, [5-[2-chloro-4-(trifluoromethyl)phenoxy]-2-[[[(4-nitrobenzoyl)oxy]imino]methyl]phenoxy]-, methyl ester (9CI) (CA INDEX NAME)

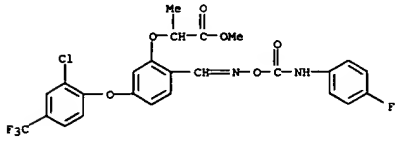


RN 128079-50-5 CAPLUS
CN Propanoic acid, 2-[5-[2-chloro-4-(trifluoromethyl)phenoxy]-2-[[[[(4-phenoxyphenoxy)carbonyl]oxy]imino]methyl]phenoxy]-, methyl ester (9CI) (CA INDEX NAME)

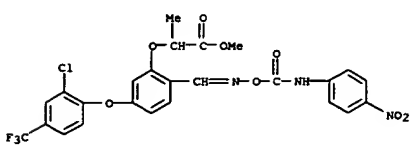




RN 128079-54-9 CAPLUS
CN Propanoic acid, 2-[5-[2-chloro-4-(trifluoromethyl)phenoxy]-2-[[[[[(4-fluorophenyl)amino]carbonyl]oxy]imino]methyl]phenoxy]-, methyl ester (9CI)
(CA INDEX NAME)

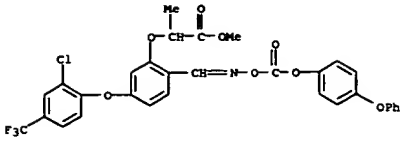


RN 128079-55-0 CAPLUS
CN Propanoic acid, 2-[5-[2-chloro-4-(trifluoromethyl)phenoxy]-2-[[[[[(4-nitrophenyl)amino]carbonyl]oxy]imino]methyl]phenoxy]-, methyl ester (9CI) (CA INDEX NAME)

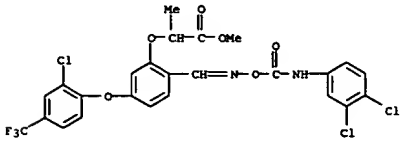


RN 128079-57-2 CAPLUS
CN Propanoic acid, 2-[5-[2-chloro-4-(trifluoromethyl)phenoxy]-2-[[[(2,4-dichlorobenzoyl)oxy]imino]methyl]phenoxy]-, methyl ester (9CI) (CA INDEX NAME)

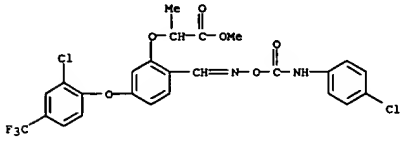




RN 128079-51-6 CAPLUS
CN Propanoic acid, 2-[5-[2-chloro-4-(trifluoromethyl)phenoxy]-2-[[[[[(3,4-dichlorophenyl)amino]carbonyl]oxy]imino]methyl]phenoxy]-, methyl ester (9CI) (CA INDEX NAME)

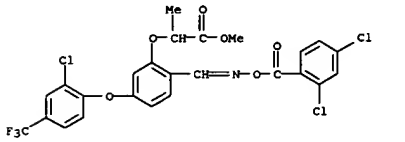


RN 128079-52-7 CAPLUS
CN Propanoic acid,
2-[2-[[[[[(4-chlorophenyl)amino]carbonyl]oxy]imino]methyl]-5-[2-chloro-4-(trifluoromethyl)phenoxy]phenoxy]-, methyl ester (9CI) (CA INDEX NAME)

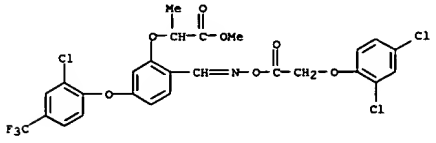


RN 128079-53-8 CAPLUS
CN Propanoic acid,
2-[2-[[[[[(3-chlorophenyl)amino]carbonyl]oxy]imino]methyl]-5-[2-chloro-4-(trifluoromethyl)phenoxy]phenoxy]-, methyl ester (9CI) (CA INDEX NAME)



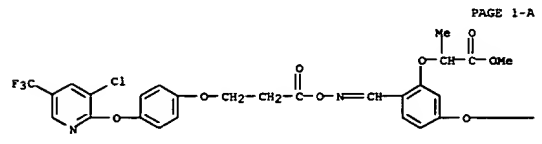


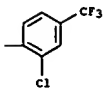
RN 128079-58-3 CAPLUS
CN Propanoic acid, 2-[5-[2-chloro-4-(trifluoromethyl)phenoxy]-2-[[[[(2,4-dichlorophenoxy)acetyl]oxy]imino]methyl]phenoxy]-, methyl ester (9CI)
(CA INDEX NAME)



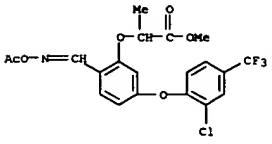
RN 128079-59-4 CAPLUS
CN Propanoic acid, 2-[5-[2-chloro-4-(trifluoromethyl)phenoxy]-2-[[[3-[4-[[3-chloro-5-(trifluoromethyl)-2-pyridinyl]oxy]phenoxy]-1-oxopropoxy]imino]methyl]phenoxy]-, methyl ester (9CI) (CA INDEX NAME)

PAGE 1-A



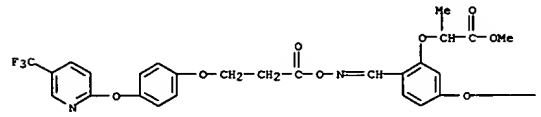


RN 128079-60-7 CAPLUS
CN Propanoic acid, 2-[2-[[[(acetyloxy)imino]methyl]-5-[2-chloro-4-(trifluoromethyl)phenoxy]phenoxy]-, methyl ester (9CI) (CA INDEX NAME)

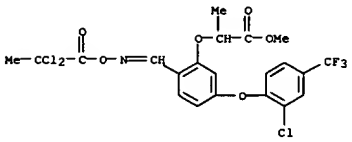


RN 128079-61-8 CAPLUS
CN Propanoic acid,
2-[5-[2-chloro-4-(trifluoromethyl)phenoxy]-2-[[[1-oxo-3-[4-[[5-(trifluoromethyl)-2-pyridinyl]oxy]phenoxy]propoxy]imino]methyl]phenoxy]-, methyl ester (9CI) (CA INDEX NAME)

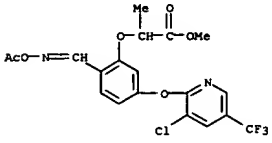




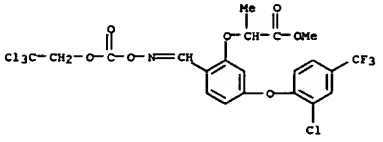




RN 128079-65-2 CAPLUS
CN Propanoic acid, 2-[2-[[(acetyloxy)imino]methyl]-5-[[3-chloro-5-(trifluoromethyl)-2-pyridinyl]oxy]phenoxy]-, methyl ester (9CI) (CA INDEX NAME)

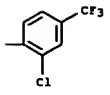


RN 128079-66-3 CAPLUS
CN Propanoic acid, 2-[5-[2-chloro-4-(trifluoromethyl)phenoxy]-2-[[[[(2,2,2-trichloroethoxy)carbonyl]oxy]imino]methyl]phenoxy]-, methyl ester (9CI) (CA INDEX NAME)

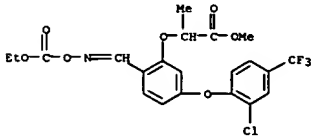


RN 128079-67-4 CAPLUS
CN Propanoic acid, 2-[2-[[[[(butylamino)carbonyl]oxy]imino]methyl]-5-[2-chloro-4-(trifluoromethyl)phenoxy]phenoxy]-, methyl ester (9CI) (CA INDEX NAME)

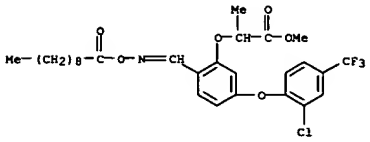




RN 128079-62-9 CAPLUS
CN Propanoic acid, 2-[5-[2-chloro-4-(trifluoromethyl)phenoxy]-2-[[[[(ethoxycarbonyl)oxy]imino]methyl]phenoxy]-, methyl ester (9CI) (CA INDEX NAME)

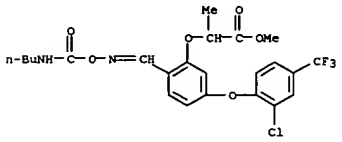


RN 128079-63-0 CAPLUS
CN Propanoic acid, 2-[5-[2-chloro-4-(trifluoromethyl)phenoxy]-2-[[[(1-oxodecyl)oxy]imino]methyl]phenoxy]-, methyl ester (9CI) (CA INDEX NAME)

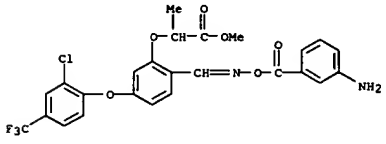


RN 128079-64-1 CAPLUS
CN Propanoic acid, 2-[5-[2-chloro-4-(trifluoromethyl)phenoxy]-2-[[(2,2-dichloro-1-oxopropoxy)imino]methyl]phenoxy]-, methyl ester (9CI) (CA INDEX NAME)

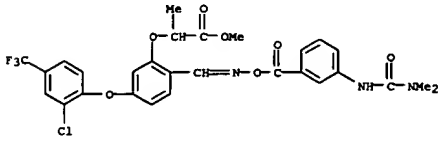




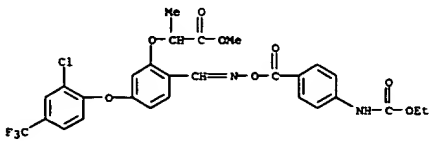
RN 128079-68-5 CAPLUS
CN Propanoic acid, 2-[2-[[[(3-aminobenzoyl)oxy]imino]methyl]-5-[2-chloro-4-(trifluoromethyl)phenoxy]phenoxy]-, methyl ester (9CI) (CA INDEX NAME)



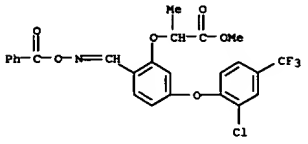
RN 128079-69-6 CAPLUS
CN Propanoic acid, 2-[5-[2-chloro-4-(trifluoromethyl)phenoxy]-2-[[[[3-[[(dimethylamino)carbonyl]amino]benzoyl]oxy]imino]methyl]phenoxy]-, methyl ester (9CI) (CA INDEX NAME)



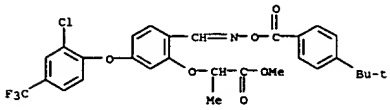
RN 128079-70-9 CAPLUS
CN Propanoic acid, 2-[5-[2-chloro-4-(trifluoromethyl)phenoxy]-2-[[[[4-[(ethoxycarbonyl)amino]benzoyl]oxy]imino]methyl]phenoxy]-, methyl ester (9CI) (CA INDEX NAME)



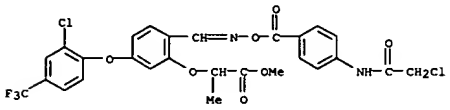
RN 128079-71-0 CAPLUS
CN Propanoic acid, 2-[2-[[(benzoyloxy)imino]methyl]-5-[2-chloro-4-(trifluoromethyl)phenoxy]phenoxy]-, methyl ester (9CI) (CA INDEX NAME)



RN 128079-73-2 CAPLUS
CN Propanoic acid, 2-[5-[2-chloro-4-(trifluoromethyl)phenoxy]-2-[[[[4-(1,1-dimethylethyl)benzoyl]oxy]imino]methyl]phenoxy]-, methyl ester (9CI) (CA INDEX NAME)

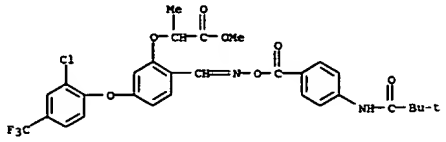


RN 128079-74-3 CAPLUS
CN Propanoic acid, 2-[2-[[[[4-[(chloroacetyl)amino]benzoyl]oxy]imino]methyl]-5-[2-chloro-4-(trifluoromethyl)phenoxy]phenoxy]-, methyl ester (9CI) (CA INDEX NAME)

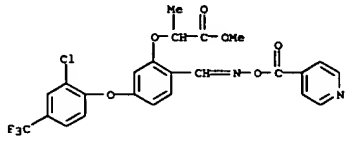




RN 128079-75-4 CAPLUS
CN Propanoic acid, 2-[5-[2-chloro-4-(trifluoromethyl)phenoxy]-2-[[[[4-[(2,2-dimethyl-1-oxopropyl)amino]benzoyl]oxy]imino]methyl]phenoxy]-, methyl ester (9CI) (CA INDEX NAME)



RN 128096-69-5 CAPLUS
CN Propanoic acid, 2-[5-[2-chloro-4-(trifluoromethyl)phenoxy]-2-[[[(4-pyridinylcarbonyl)oxy]imino]methyl]phenoxy]-, methyl ester (9CI) (CA INDEX NAME)

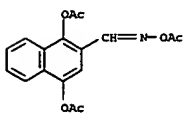


L15 ANSWER 12 OF 28 CAPLUS COPYRIGHT 2002 ACS
GI For diagram(s), see printed CA Issue.
AB The title compds. [I; R1, R4 = H, acyl, alkoxycarbonyl, alkylsulfonyl, dialkylcarbamoyl, alkoxyalkyl, alkyl; R2 = cyano, CHO, N-acyloxyiminomethyl, substituted CONH2, acylalkyl, (CH2CH:CMeCH2)nH (n = 2-4), CH2CH:CMe2, acyloxyalkyl, alkoxycarbonylalkyl, (un)substituted alkylsulfonyl, SO3H, substituted OH or NH2, N-substituted CH2NH2, CO2H, R;
R3 = H, alkyl, acyloxyalkyl, etc. ], useful for wound healing and for treatment of delayed allergies, are prepd. Thus, treatment of 1,4-naphthalenediol ditetrahydropyranyl ether (prepn. given) with BuLi in Et2O followed by DMF gave, after deprotection, 2-formyl-1,4-dihydroxynaphthalene which was acetylated with Ac2O in pyridine to give 2-formyl-1,4-diacetoxynaphthalene. I inhibited 24.2-96.6% auricle edema in mice sensitized with oxazolone.

ACCESSION NUMBER: 1990:118481 CAPLUS
DOCUMENT NUMBER: 112:118481
TITLE: Preparation of 1,4-dihydroxynaphthalene derivatives for wound healing and for treatment of delayed allergies
INVENTOR(S): Imuda, Junichi; Ishitoku, Takeshi; Isayama, Shigeru; Furuya, Yoshiro; Takahashi, Katsuya; Ori, Aiichiro; Nakamura, Hideo; Motoyoshi, Satoru
PATENT ASSIGNEE(S): Mitsui Petrochemical Industries, Ltd., Japan; Dainippon Pharmaceutical Co., Ltd.
SOURCE: Jpn. Kokai Tokkyo Koho, 47 pp.
CODEN: JKXXAF
DOCUMENT TYPE: Patent
LANGUAGE: Japanese
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

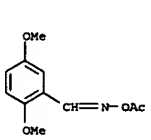
| PATENT NO. | KIND | DATE | APPLICATION NO. | DATE |
|---|---|---|---|---|
| JP 01203351 | A2 | 19890816 | JP 1988-25330 | 19880205 |

OTHER SOURCE(S): MARPAT 112:118481
IT **125499-32-3P**
RL: SPN (Synthetic preparation); PREP (Preparation)
(prepn. of, as allergy inhibitor and for wound healing)
RN 125499-32-3 CAPLUS
CN 2-Naphthalenecarboxaldehyde, 1,4-bis(acetyloxy)-, 2-(O-acetyloxime) (9CI) (CA INDEX NAME)



L15 ANSWER 13 OF 28 CAPLUS COPYRIGHT 2002 ACS
AB A new reagent, Me2NCH2CONMeOH (I), was developed for the selective cleavage of active esters under neutral conditions. Kinetic studies and applications of I are described.

ACCESSION NUMBER: 1989:552945 CAPLUS
DOCUMENT NUMBER: 111:152945
TITLE: N-Methyl-2-(dimethylamino)acetohydroxamic acid as a new reagent for the selective cleavage of active esters under neutral conditions
AUTHOR(S): Ono, Mitsunori; Itoh, Isamu
CORPORATE SOURCE: Ashigara Res. Lab., Fuji Photo Film Co., Ltd., Minami-Ashigara, 250 01, Japan
SOURCE: Tetrahedron Lett. (1989), 30(2), 207-10
CODEN: TELEAY; ISSN: 0040-4039
DOCUMENT TYPE: Journal
LANGUAGE: English
OTHER SOURCE(S): CASREACT 111:152945
IT **122913-67-1**
RL: RCT (Reactant)
(ester cleavage of, in presence methyl(dimethylamino)acetohydroxamic acid)
RN 122913-67-1 CAPLUS
CN Benzaldehyde, 2,5-dimethoxy-, O-acetyloxime (9CI) (CA INDEX NAME)



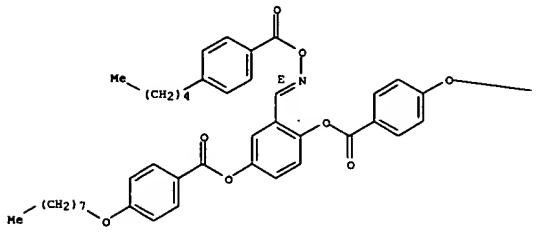
L15 ANSWER 14 OF 28 CAPLUS COPYRIGHT 2002 ACS

AB The synthesis is described of 2-substituted hydroquinonebis(benzoates) which have large 2-substituents contg. arom. and other ring systems. Contrary to the general accepted opinion these large lateral substituents which cause remarkable deviations from the rodlike shape of the mols. do not prevent the liq.-cryst. properties, the compds. are nematic and smectic. The influence of different chem. groups on the liq.-cryst. properties was investigated systematically. The compds. tend to exhibit the glassy nematic state above room temp. This property may be used for the construction of thermoelectrooptic devices.

ACCESSION NUMBER: 1988:230022 CAPLUS
DOCUMENT NUMBER: 108:230022
TITLE: Thermotropic liquid-crystalline compounds with lateral
long chain substituents. Part IX.
Liquid-crystalline
compounds with lateral aromatic branches
AUTHOR(S): Weissflog, W.; Demus, D.
CORPORATE SOURCE: VEB Laborchem., Leipzig-Lutzschena, DDR-7143, Ger. Dem. Rep.
SOURCE: Liq. Cryst. (1988), 3(2), 275-84
CODEN: LICRE6; ISSN: 0267-8292
DOCUMENT TYPE: Journal
LANGUAGE: English
IT 114391-76-3P
RL: PRP (Properties); SPN (Synthetic preparation); PREP (Preparation)
(liq. crystal, prepn. and properties of)
RN 114391-76-3 CAPLUS
CN Benzoic acid, 4-(octyloxy)-, 2-[[[(4-pentylbenzoyl)oxy]imino]methyl]-1,4-phenylene ester, (E)- (9CI) (CA INDEX NAME)

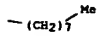
Double bond geometry as shown.

PAGE 1-A

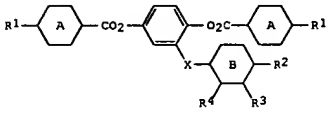


L15 ANSWER 14 OF 28 CAPLUS COPYRIGHT 2002 ACS (Continued)

PAGE 1-B



L15 ANSWER 15 OF 28 CAPLUS COPYRIGHT 2002 ACS
GI



I

AB Liq.-cryst. 2-substituted-1,4-bis(4-substituted benzoyloxy)benzenes of formula I, where R1 = C1-12 alkyl or alkoxy; R2 = R1, (CH2)0-4CN, NO2, O2CC6H4R1, H, or Br; R3,R4 = H, alkyl, alkoxy, NO2, or CN; R2 + R3 = OCH2O; A = 1,4-phenylene or 1,4-cyclohexylene; B = A or pyridine; X = CO, R5C:NOOC, or COY; R5 = CnH2n (n = 0-4); Y = Z1(CH2)nZ2 (n = 0-10); Z1 = O, S, NR5, CHR5, CO, CH:CH, or N:CR5; and Z2 = Z1, OOC, or a single bond, can be used alone or mixed with each other or with other liq.-crystal or non-liq.-crystal materials.

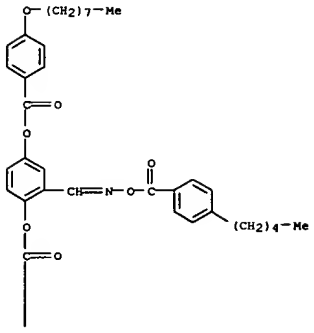
ACCESSION NUMBER: 1988:122081 CAPLUS
DOCUMENT NUMBER: 108:122081
TITLE: Glassy nematic liquid crystals as anisotropic solid optical materials for optical components and thermoelectrooptical storage displays
INVENTOR(S): Demus, Dietrich; Pelzl, Gerhard; Diele, Siegmar; Weissflog, Wolfgang; Wedler, Wolfgang
PATENT ASSIGNEE(S): Martin-Luther-Universitaet Halle-Wittenberg, Ger. Dem. Rep.
SOURCE: Ger. (East), 7 pp.
CODEN: GEXXA8
DOCUMENT TYPE: Patent
LANGUAGE: German
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

| PATENT NO. | KIND | DATE | APPLICATION NO. | DATE |
|---|---|---|---|---|
| DD 247227 | A1 | 19870701 | DD 1986-287593 | 19860305 |
| DE 3703640 | A1 | 19870910 | DE 1987-3703640 | 19870206 |
| CH 671233 | A | 19890815 | CH 1987-560 | 19870212 |
| GB 2188048 | A1 | 19870923 | GB 1987-4421 | 19870225 |
| GB 2188048 | B2 | 19900912 | | |
| JP 62212349 | A2 | 19870918 | JP 1987-48987 | 19870305 |

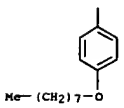
PRIORITY APPLN. INFO.: DD 1986-287593 19860305
IT 113267-59-7
RL: USES (Uses)
(glassy nematic liq. crystal, as anisotropic optical material)
RN 113267-59-7 CAPLUS
CN Benzoic acid, 4-(octyloxy)-, 2-[[[(4-pentylbenzoyl)oxy]imino]methyl]-1,4-phenylene ester (9CI) (CA INDEX NAME)

L15 ANSWER 15 OF 28 CAPLUS COPYRIGHT 2002 ACS (Continued)

PAGE 1-A



PAGE 2-A



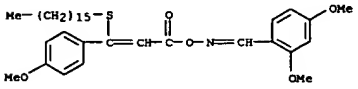
L15 ANSWER 16 OF 28 CAPLUS COPYRIGHT 2002 ACS

AB In the title process, the heating of imaging materials is carried out in the presence of the compd. of the formula R1CX:CR2CO2N:CHR3 (R1, R2 = H, alkyl, cycloalkyl, alkenyl, alkynyl, aralkyl, aryl, heterocyclyl, carboxyl or its salt, halo, CN, alkylsulfonyl, arylsulfonyl, sulfamoyl, carbamoyl, alkoxycarbonyl, aryloxycarbonyl, alkylphosphoryl, arylphosphoryl, alkylphosphinyl, arylphosphinyl, alkylsulfinyl, arylsulfinyl, acyl, amino, acylamino, acyloxy, photog. useful group, R3 = aryl, heterocyclyl; X = photog. useful group; R1R2 combination may form a ring). The above compds. release development inhibitors with excellent timing.

ACCESSION NUMBER: 1987:415617 CAPLUS
DOCUMENT NUMBER: 107:15617
TITLE: Imaging process involving heating step
INVENTOR(S): Sato, Kozo; Kato, Masatoshi; Kitaguchi, Hiroshi
PATENT ASSIGNEE(S): Fuji Photo Film Co., Ltd., Japan
SOURCE: Jpn. Kokai Tokkyo Koho, 19 pp.
CODEN: JKXXAF
DOCUMENT TYPE: Patent
LANGUAGE: Japanese
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

| PATENT NO. | KIND | DATE | APPLICATION NO. | DATE |
|---|---|---|---|---|
| JP 61267045 | A2 | 19861126 | JP 1985-106872 | 19850521 |
| JP 05033780 | B4 | 19930520 | | |

IT 108859-53-6
RL: USES (Uses)
(photothermog. development inhibitor-releasing compds.)
RN 108859-53-6 CAPLUS
CN Benzaldehyde, 2,4-dimethoxy-, O-[3-(hexadecylthio)-3-(4-methoxyphenyl)-1-oxo-2-propenyl]oxime (9CI) (CA INDEX NAME)



L15 ANSWER 17 OF 28 CAPLUS COPYRIGHT 2002 ACS

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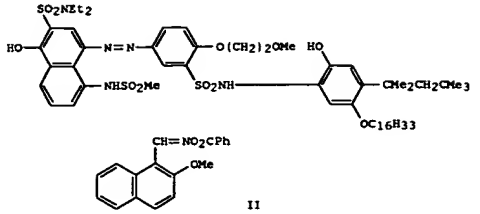


I



II

AB Heat-developable photosensitive materials giving an image with a high signal-to-noise ratio, that is a high Dmax and a low Dmin, and a high d. are composed of a photosensitive gelatin-Ag halide emulsion layer, a dye-forming substance that upon redn. at a high temp. produces a diffusible dye, and an org. acid precursor with the structural unit -CH:NO2C- that is very stable at .ltorsim.50.degree., but frees an acid at temps. proceeding to development to neutralize the base and stop the development. Thus, a PET support was coated with a compn. contg. a gelatin-Ag(Br,I) emulsion 20, a gelatin-Ag benzotriazole emulsion 10, a dispersion of I 33 g, a 5% aq. soln. of p-C9H19C6H4O(CH2CH2O)10H 10, a 10% aq. soln. of H2NSO2NMe2 4, a gelatin dispersion of II 10 mL, and a soln. of guanidine trichloroacetate 1.6 mL in EtOH 16 mL at 33.mu. (wet). After drying a gelatin protective layer was added. The resultant material was then imagewise exposed 10 s at 2000 lx with a W lamp, heated for 60 s on a 140.degree. heating block, contacted with a wet receptor sheet, and heated 6 s at 80.degree. to give a Dmax of 2.10 and a Dmin of 0.20 vs. 2.35 and 0.85, resp., for a II-free control.

ACCESSION NUMBER: 1986:139353 CAPLUS
DOCUMENT NUMBER: 104:139353
TITLE: Heat-developing light-sensitive color material
INVENTOR(S): Kato, Masatoshi; Kitaguchi, Hiroshi
PATENT ASSIGNEE(S): Fuji Photo Film Co., Ltd. , Japan
SOURCE: Ger. Offen., 90 pp.
CODEN: GWXXBX
DOCUMENT TYPE: Patent
LANGUAGE: German
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

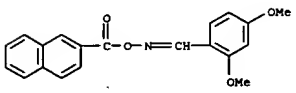
| PATENT NO. | KIND | DATE | APPLICATION NO. | DATE |
|---|---|---|---|---|
| DE 3508761 | A1 | 19850919 | DE 1985-3508761 | 19850312 |

L15 ANSWER 17 OF 28 CAPLUS COPYRIGHT 2002 ACS (Continued)

| | | | | |
|---|---|---|---|---|
| JP 60192939 | A2 | 19851001 | JP 1984-48305 | 19840314 |
| JP 04069775 | B4 | 19921109 | | |
| US 4656126 | A | 19870407 | US 1985-711885 | 19850314 |

PRIORITY APPLN. INFO.: JP 1984-48305 19840314

IT 100906-54-5
RL: USES (Uses)
(color diffusion-transfer photothermog. materials contg. base-neutralizing acid precursor from, for improved image quality)
RN 100906-54-5 CAPLUS
CN Benzaldehyde, 2,4-dimethoxy-, O-(2-naphthalenylcarbonyl)oxime (9CI) (CA INDEX NAME)



L15 ANSWER 18 OF 28 CAPLUS COPYRIGHT 2002 ACS

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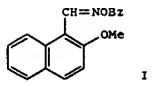


I

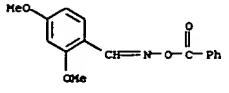
AB Org. acid precursors (R1CH:NO2C)nX [R1 = (un)substituted alkyl, cycloalkyl, aralkyl, alkenyl, (un)substituted aryl, heterocyclyl; X = (un)substituted alkyl, cycloalkyl, aralkyl, (un)substituted aryl, heterocycyl, or a mono-, di-, or trivalent group formed by combination of the above; n = 1-3], useful as agents to end development in a thermal photog. development process, were prepd. Thus, 103.2 g 2-hydroxy-1-naphthaldehyde in DMF was etherified with 4-MeC6H4SO3Me and K2CO3 at 50-60.degree. for 2 h to give 93.8 g 2-methoxy-1-naphthaldehyde, which (80 g) underwent oximation to give 85 g oxime. The oxime (70.3 g) was treated with 60% NaH in MeCN, and the resulting soln. treated with BzCl at 10.degree. to give 88 g acid precursor I. The reaction rate const. for cleavage of I to BzOH was 2.01/h at 100.degree., with T1/2 = 0.34 h.

ACCESSION NUMBER: 1986:50692 CAPLUS
DOCUMENT NUMBER: 104:50692
TITLE: Photographic material containing an acid precursor and a procedure for producing a photographic image
INVENTOR(S): Kitaguchi, Hiroshi; Kato, Masatoshi
PATENT ASSIGNEE(S): Fuji Photo Film Co., Ltd. , Japan
SOURCE: Ger. Offen., 40 pp.
CODEN: GWXXBX
DOCUMENT TYPE: Patent
LANGUAGE: German
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

| PATENT NO. | KIND | DATE | APPLICATION NO. | DATE |
|---|---|---|---|---|
| DE 3442018 | A1 | 19850530 | DE 1984-3442018 | 19841116 |
| JP 60108837 | A2 | 19850614 | JP 1983-216928 | 19831117 |
| US 4670373 | A | 19870602 | US 1984-672643 | 19841119 |

PRIORITY APPLN. INFO.: JP 1983-216928 19831117

IT 99806-97-0
RL: PRP (Properties)
(decompn. kinetics of)
RN 99806-97-0 CAPLUS
CN Benzaldehyde, 2,4-dimethoxy-, O-benzoyloxime (9CI) (CA INDEX NAME)



L15 ANSWER 18 OF 28 CAPLUS COPYRIGHT 2002 ACS (Continued)

L15 ANSWER 19 OF 28 CAPLUS COPYRIGHT 2002 ACS
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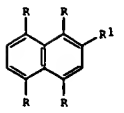


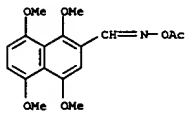
I

AB Alkoxynaphthalenes and their salts I [R = alkoxy; R1 = HOCH2, halomethyl, R2ON:CH (where R2 = H, alkyl), (CR3H)nR4 (where R3 = H, alkyl and R4 = CO2H, alkoxycarbonyl, cyano; n = 0, 1)], having inflammation inhibiting, antihypertensive, analgesic, antiallergic, and antihistaminic activities (no data), were prepd. Thus, aq. NaOH was added dropwise to a suspension of 1.8 g I (R = OMe; R1 = CHO) and 2.2 g Ag2O in CH2Cl2 and the resulting mixt. heated 24 h at 60.degree. to give 1 g I (R = OMe; R1 = CO2H).

ACCESSION NUMBER: 1985:471078 CAPLUS
DOCUMENT NUMBER: 103:71078
TITLE: Alkoxynaphthalene derivatives
PATENT ASSIGNEE(S): Otsuka Pharmaceutical Factory, Inc., Japan
SOURCE: Jpn. Kokai Tokkyo Koho, 7 pp.
CODEN: JKXXAF
DOCUMENT TYPE: Patent
LANGUAGE: Japanese
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

| PATENT NO. | KIND | DATE | APPLICATION NO. | DATE |
|---|---|---|---|---|
| JP 60036434 | A2 | 19850225 | JP 1983-145447 | 19830808 |
| JP 03026177 | B4 | 19910410 | | |

OTHER SOURCE(S): CASREACT 103:71078
IT 97476-16-9P
RL: SPN (Synthetic preparation); PREP (Preparation)
(prepn. of)
RN 97476-16-9 CAPLUS
CN 2-Naphthalenecarboxaldehyde, 1,4,5,8-tetramethoxy-, O-acetyloxime (9CI) (CA INDEX NAME)

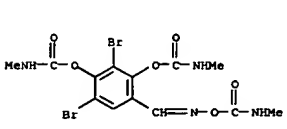


L15 ANSWER 20 OF 28 CAPLUS COPYRIGHT 2002 ACS
AB The oxime ethers Ar (SOn)mCX(:NOBA) (Ar = Ph, naphthyl, or heterocyclic radical; A = H, C1-4 alkoxy, C2-4 alkenyloxy, C1-4 alkylthio, etc.; B = C1-4 alkylene or alkenylene, or direct bond; X = H, halo, alkylcarbamoyl, etc.; m = 0 or 1; n = 0, 1, or 2) are antidotes for known sulfonylurea herbicides. Thus, seed treatment with 2-FC6H4C(CN)(:NOCH2CN) [97627-47-9] (1 g/kg) protected corn by 50% against phytotoxicity from postemergence application of N-(2-methylbenzoylsulfonyl)-N'-(4-difluoromethoxy-6-methyl)pyrimidin-2-ylurea (62 g/ha), in pot expts.

ACCESSION NUMBER: 1985:466781 CAPLUS
DOCUMENT NUMBER: 103:66781
TITLE: Selectively active herbicides containing sulfonyl urea
as the active herbicidal agent as well as an antagonistically active oxime ether and their use for controlling weeds in food plant crops
INVENTOR(S): Gerber, Hans Rudolf; Bellucci, Sergio
PATENT ASSIGNEE(S): Ciba-Geigy A.-G. , Switz.
SOURCE: Eur. Pat. Appl., 50 pp.
CODEN: EPXXDW
DOCUMENT TYPE: Patent
LANGUAGE: German
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

| PATENT NO. | KIND | DATE | APPLICATION NO. | DATE |
|---|---|---|---|---|
| EP 144283 | A1 | 19850612 | EP 1984-810470 | 19840928 |
| R: BE, CH, DE, FR, GB, IT, LI, NL | | | | |
| JP 60094902 | A2 | 19850528 | JP 1984-209016 | 19841004 |
| PRIORITY APPLN. INFO.: | | | CH 1983-5389 | 19831004 |

IT 75409-11-9
RL: BIOL (Biological study)
(as antidote, for sulfonylurea herbicides)
RN 75409-11-9 CAPLUS
CN Benzaldehyde, 3,5-dibromo-2,4-bis[[(methylamino)carbonyl]oxy]-, 1-[O-[(methylamino)carbonyl]oxime] (9CI) (CA INDEX NAME)



L15 ANSWER 21 OF 28 CAPLUS COPYRIGHT 2002 ACS
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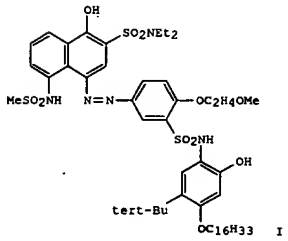
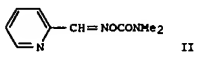


I



II

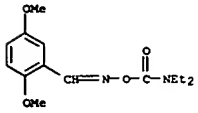
AB A photog. material which forms low-fog storage-stable dye images by heating consists of .gtoreq.1 Ag halide emulsion, a binder, a dye-releasing redox compd., and a base precursor RCH:NOCONR1R2 (R = alkyl, cycloalkyl, alkenyl, aryl, aralkyl, acyl, heterocyclyl; R1, R2 = H, alkyl, cycloalkyl, aralkyl, or RR1 together can form a ring, or NRR1 may form an imino group by a double bond. Thus, a poly(ethylene terephthalate) support was coated with a compn. contg. a Ag(Br,I) emulsion 25, a dye-releasing redox compd. dispersion (contg. I 5, Na bis(2-ethylhexyl) sulfosuccinate 0.5, tricresyl phosphate 5, 10% aq. gelatin 100 g, EtOAc 30 mL) 33 g, a 5% aq. soln. of C9H19C6H4-p-O(CH2CH2O)10H 10, a 10% aq. soln. of H2NSO2NMe2 4 mL, and a soln. contg. the base precursor II 2.5 g in EtOH 20 mL, to a wet thickness of 30 .mu.m, dried, imagewise exposed to 2000 lx for 10 s using W lamp, heated 10 s to 140.degree., contacted with a H2O-wetted image receiver (consisting of a polyester support contg. dispersed TiO2 and a gelatin layer of Me acrylate-N,N,N-trimethyl-N-vinylbenzylammonium chloride copolymer), and heated 6 s at 80.degree.. After sepn. of the elements a neg. magenta image was obtained on the receiver which had a Dmax and Dmin of 2.05 and 0.2, resp., vs. 0.03 and 0.03, resp., for a II-free control.

ACCESSION NUMBER: 1985:70099 CAPLUS
DOCUMENT NUMBER: 102:70099
TITLE: Heat-developable color photographic materials
INVENTOR(S): Hirai, Hiroyuki; Kawata, Ken
PATENT ASSIGNEE(S): Fuji Photo Film Co., Ltd. , Japan
SOURCE: Eur. Pat. Appl., 61 pp.
CODEN: EPXXDW

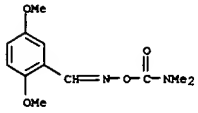
L15 ANSWER 21 OF 28 CAPLUS COPYRIGHT 2002 ACS (Continued)
DOCUMENT TYPE: Patent
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

| PATENT NO. | KIND | DATE | APPLICATION NO. | DATE |
|---|---|---|---|---|
| EP 118078 | A2 | 19840912 | EP 1984-101801 | 19840221 |
| EP 118078 | A3 | 19841128 | | |
| EP 118078 | B1 | 19880107 | | |
| R: DE, FR, GB, NL | | | | |
| JP 59157637 | A2 | 19840907 | JP 1983-31614 | 19830225 |
| JP 02045180 | B4 | 19901008 | | |
| US 4499180 | A | 19850212 | US 1984-583913 | 19840227 |

PRIORITY APPLN. INFO.: JP 1983-31614 19830225
IT **93369-33-6P 93369-34-7P**
RL: PREP (Preparation)
(prepn. of, for heat-developable color photog. materials)
RN 93369-33-6 CAPLUS
CN Benzaldehyde, 2,5-dimethoxy-, O-[(diethylamino)carbonyl]oxime (9CI) (CA INDEX NAME)



RN 93369-34-7 CAPLUS
CN Benzaldehyde, 2,5-dimethoxy-, O-[(dimethylamino)carbonyl]oxime (9CI) (CA INDEX NAME)



L15 ANSWER 22 OF 28 CAPLUS COPYRIGHT 2002 ACS
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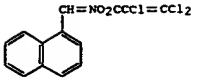


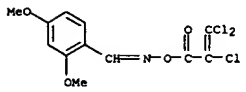
II III

AB Cl2C:CClCO2N:CRR1 (I) (R,R1 = H, lower alkyl, benzyl, cycloalkyl, naphthyl, aryl, etc.) were prepd. and shown, in some cases, to be more effective fungicides than kilazin P. Thus, 100 mL PhMe soln. contg. 40 g Cl2C:CClCOCl were added at .ltoreq.20.degree. to 30 g PhCH:NOH and 26 g Et3N in 400 mL PhMe, and the mixt. was heated 2 h at 50.degree. to give 58
g I (R = Ph, R1 = H). Among 39 other I prepd. were I [R,R1 = Me,Me; Me,Et; (RR1=) cyclohexylidene], the naphthyl analog II, and the dicyclopropyl analog III.
ACCESSION NUMBER: 1984:610740 CAPLUS
DOCUMENT NUMBER: 101:210740
TITLE: Trichloroacryloyl oxime derivatives
INVENTOR(S): Yamada, Yasuo; Saito, Junichi; Gotoh, Toshio; Katsumata, Osamu; Sakawa, Shinji
PATENT ASSIGNEE(S): Nihon Tokushu Noyaku Seizo K. K. , Japan
SOURCE: Eur. Pat. Appl., 34 pp.
CODEN: EPXXDW
DOCUMENT TYPE: Patent
LANGUAGE: German
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

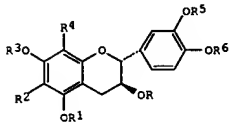
| PATENT NO. | KIND | DATE | APPLICATION NO. | DATE |
|---|---|---|---|---|
| EP 112524 | A1 | 19840704 | EP 1983-112276 | 19831207 |
| EP 112524 | B1 | 19860528 | | |
| R: AT, BE, CH, DE, FR, GB, IT, LI, NL | | | | |
| JP 59110665 | A2 | 19840626 | JP 1982-220165 | 19821217 |
| US 4581365 | A | 19860408 | US 1983-557688 | 19831202 |
| IL 70443 | A1 | 19870130 | IL 1983-70443 | 19831214 |
| BR 8306913 | A | 19840724 | BR 1983-6913 | 19831215 |
| ZA 8309329 | A | 19840829 | ZA 1983-9329 | 19831215 |
| DK 8305810 | A | 19840618 | DK 1983-5810 | 19831216 |
| AU 8322504 | A1 | 19840621 | AU 1983-22504 | 19831219 |

PRIORITY APPLN. INFO.: JP 1982-220165 19821217
OTHER SOURCE(S): CASREACT 101:210740
IT **93033-55-7P**
RL: AGR (Agricultural use); BAC (Biological activity or effector, except adverse); SPN (Synthetic preparation); BIOL (Biological study); PREP (Preparation); USES (Uses)
(prepn. of, as fungicide)
RN 93033-55-7 CAPLUS
CN Benzaldehyde, 2,4-dimethoxy-, O-(2,3,3-trichloro-1-oxo-2-propenyl)oxime (9CI) (CA INDEX NAME)

L15 ANSWER 22 OF 28 CAPLUS COPYRIGHT 2002 ACS (Continued)



L15 ANSWER 23 OF 28 CAPLUS COPYRIGHT 2002 ACS
GI



I

AB Cyanidanols I [R = H, (un)substituted hydrocarbon, acyl, carbamoyl; R1, R3, R5, R6 = H, (un)substituted hydrocarbon; R5R6 = CH2; R2, R4 = H, (un)substituted hydrocarbon, heterocyclic, halogen, CHO, (un)substituted CO2H, OH, SH, sulfamoyl, acyl, amino] were prepd. Thus I (R = R1 = R3 = R5 = R6 = CH2Ph, R2 = R4 = H) was converted to its 8-formyl deriv. which was subjected to Grignard reaction with EtBr to give I (R = R1 = R3 = R5 =
R6 = CH2Ph, R2 = H, R4 = CHEtOH). Hydrogenation of the latter compd. on Pd-C gave I (R = CH2Ph, R1-R3 = R5 = R6 = H, R4 = Pr) which had an ED50 against acute galactosamine hepatitis of 118.5 .mu.moles/kg orally in rats
and 25 mg/kg i.p. in rats gave 56.1% inhibition of D-galactosamine edema.
ACCESSION NUMBER: 1984:209512 CAPLUS
DOCUMENT NUMBER: 100:209512
TITLE: Pharmaceutical preparation containing (+)-cyanidan-3-ol derivatives, and use thereof
INVENTOR(S): Ballenegger, Marc Ernest; Rimbault, Christian Gerard; Albert, Alban Imre; Weith, Andre Jean; Courbat, Pierre; Tyson, Robert Graham; Palmer, Derek Reginald; Thompson, David George
PATENT ASSIGNEE(S): Zyma S. A., Switz.
SOURCE: Eur. Pat. Appl., 140 pp.
CODEN: EPXXDW
DOCUMENT TYPE: Patent
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

| PATENT NO. | KIND | DATE | APPLICATION NO. | DATE |
|---|---|---|---|---|
| EP 96007 | A2 | 19831207 | EP 1983-810222 | 19830526 |
| EP 96007 | A3 | 19840104 | | |
| EP 96007 | B1 | 19870729 | | |
| R: AT, BE, CH, DE, FR, IT, LI, LU, NL, SE | | | | |
| GB 2122608 | A1 | 19840118 | GB 1983-12765 | 19830510 |
| GB 2122608 | B2 | 19851002 | | |
| AT 28641 | E | 19870815 | AT 1983-810222 | 19830526 |
| FI 8301926 | A | 19831202 | FI 1983-1926 | 19830530 |
| ZA 8303908 | A | 19840125 | ZA 1983-3908 | 19830530 |
| ES 522814 | A1 | 19850916 | ES 1983-522814 | 19830530 |
| CA 1234103 | A1 | 19880315 | CA 1983-429160 | 19830530 |
| DK 8302452 | A | 19831202 | DK 1983-2452 | 19830531 |
| NO 8301950 | A | 19831202 | NO 1983-1950 | 19830531 |
| AU 8315255 | A1 | 19831208 | AU 1983-15255 | 19830531 |
| AU 568301 | B2 | 19871224 | | |

L15 ANSWER 23 OF 28 CAPLUS COPYRIGHT 2002 ACS (Continued)

| | | | | | |
|---|---|---|---|---|---|
| JP 58219177 | A2 | 19831220 | JP 1983-96840 | 19830531 |
| HU 31165 | O | 19840428 | HU 1983-1943 | 19830531 |
| DD 210687 | A5 | 19840620 | DD 1983-251542 | 19830531 |
| IL 68832 | A1 | 19880630 | IL 1983-68832 | 19830531 |
| ES 536423 | A1 | 19870416 | ES 1984-536423 | 19841001 |
| US 4644011 | A | 19870217 | US 1985-754181 | 19850709 |

PRIORITY APPLN. INFO.:

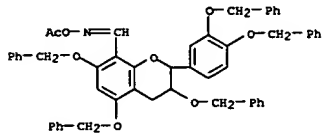
| | |
|---|---|
| GB 1982-15867 | 19820601 |
| EP 1983-810222 | 19830526 |
| US 1983-499647 | 19830531 |

OTHER SOURCE(S): CASREACT 100:209512

IT **89385-95-5P**
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation)
(prepn. and dehydration of)

RN 89385-95-5 CAPLUS

CN 2H-1-Benzopyran-8-carboxaldehyde, 2-[3,4-bis(phenylmethoxy)phenyl]-3,4-dihydro-3,5,7-tris(phenylmethoxy)-, O-acetyloxime, (2R-trans)- (9CI) (CA INDEX NAME)



L15 ANSWER 24 OF 28 CAPLUS COPYRIGHT 2002 ACS

GI For diagram(s), see printed CA Issue.

AB Approx. 300 oximes R1CR2:NOR3 (R1 = substituted Ph or heterocyclic radical; R2 = H, CH, halogen, alkyl, etc.; R3 = H, alkyl, haloalkyl, alkenyl, alkylsulfonyl, etc.) were prepd. and tested as herbicidal antidotes. Thus, seed treatment with 10 ppm (I) [34646-95-2] protected rice against the phytotoxic effect of Metolachlor [51218-45-2], in pot expts.

ACCESSION NUMBER: 1982:540287 CAPLUS
Correction of: 1981:78439

DOCUMENT NUMBER: 97:140287
Correction of: 94:78439

TITLE: Oxime derivatives and their use in the protection of cultivated plants

INVENTOR(S): Lukaszczyk, Alfons; Martin, Henry; Diel, Peter J.; Fory, Werner; Gatzi, Karl; Kristinsson, Haukur; Muller, Beat; Muntwyler, Rene; Pachlatko, Johannes Paul; et al.

PATENT ASSIGNEE(S): Ciba-Geigy A.-G., Switz.

SOURCE: Eur. Pat. Appl., 72 pp.
CODEN: EPXXDW

DOCUMENT TYPE: Patent

LANGUAGE: German

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

| PATENT NO. | KIND | DATE | APPLICATION NO. | DATE |
|---|---|---|---|---|
| EP 12158 | A2 | 19800625 | EP 1979-103212 | 19790830 |
| EP 12158 | A3 | 19800723 | | |
| EP 12158 | B1 | 19840815 | | |
| R: AT, BE, CH, DE, FR, GB, IT, NL | | | | |
| US 4347372 | A | 19820831 | US 1979-70288 | 19790828 |
| CS 210698 | P | 19820129 | CS 1979-5915 | 19790830 |
| CA 1164869 | A1 | 19840403 | CA 1979-334777 | 19790830 |
| IL 58152 | A1 | 19840531 | IL 1979-58152 | 19790830 |
| AT 8957 | E | 19840915 | AT 1979-103212 | 19790830 |
| AU 7950474 | A1 | 19800320 | AU 1979-50474 | 19790831 |
| AU 541126 | B2 | 19841220 | | |
| DD 146143 | C | 19810128 | DD 1979-215309 | 19790831 |
| JP 63017067 | B4 | 19880412 | JP 1979-112354 | 19790901 |
| ZA 7904650 | A | 19800924 | ZA 1979-4650 | 19790904 |
| US 4388464 | A | 19830614 | US 1981-232752 | 19810209 |
| US 4715883 | A | 19871229 | US 1982-423354 | 19820924 |

PRIORITY APPLN. INFO.:

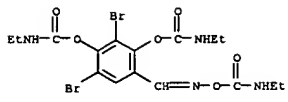
| | |
|---|---|
| CH 1978-9255 | 19780901 |
| US 1979-70288 | 19790828 |
| EP 1979-103212 | 19790830 |
| US 1981-232752 | 19810209 |

IT **75409-00-6P 75409-01-7P 75409-02-8P**
**75409-03-9P 75409-04-0P 75409-05-1P**
**75409-06-2P 75409-07-3P 75409-08-4P**
**75409-09-5P 75409-10-8P 75409-11-9P**
RL: AGR (Agricultural use); BAC (Biological activity or effector, except adverse); SPN (Synthetic preparation); BIOL (Biological study); PREP (Preparation); USES (Uses)
(prepn. and herbicide-antidote activity of)

RN 75409-00-6 CAPLUS

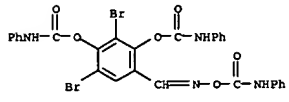
CN Carbamic acid, ethyl-, 2,4-dibromo-6-[[[[(ethylamino)carbonyl]oxy]imino]methyl]-1,3-phenylene ester (9CI) (CA INDEX NAME)

L15 ANSWER 24 OF 28 CAPLUS COPYRIGHT 2002 ACS (Continued)



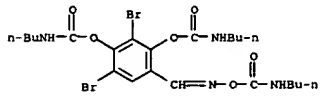
RN 75409-01-7 CAPLUS

CN Benzaldehyde, 3,5-dibromo-2,4-bis[[(phenylamino)carbonyl]oxy]-, 1-[O-[(phenylamino)carbonyl]oxime] (9CI) (CA INDEX NAME)



RN 75409-02-8 CAPLUS

CN Carbamic acid, butyl-, 2,4-dibromo-6-[[[[(butylamino)carbonyl]oxy]imino]methyl]-1,3-phenylene ester (9CI) (CA INDEX NAME)

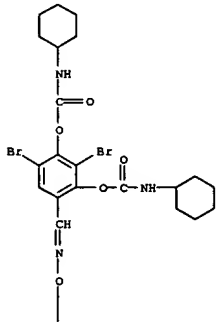


RN 75409-03-9 CAPLUS

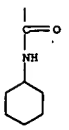
CN Carbamic acid, cyclohexyl-, 2,4-dibromo-6-[[[[(cyclohexylamino)carbonyl]oxy]imino]methyl]-1,3-phenylene ester (9CI) (CA INDEX NAME)

L15 ANSWER 24 OF 28 CAPLUS COPYRIGHT 2002 ACS (Continued)

PAGE 1-A

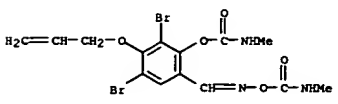


PAGE 2-A



RN 75409-04-0 CAPLUS

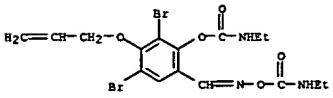
CN Benzaldehyde, 3,5-dibromo-2-[[(methylamino)carbonyl]oxy]-4-(2-propenyloxy)-, 1-[O-[(methylamino)carbonyl]oxime] (9CI) (CA INDEX NAME)



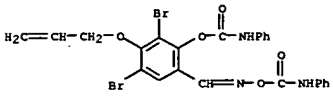
RN 75409-05-1 CAPLUS

CN Carbamic acid, ethyl-, 2,4-dibromo-6-[[[[(ethylamino)carbonyl]oxy]imino]me

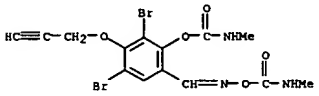
L15 ANSWER 24 OF 28 CAPLUS COPYRIGHT 2002 ACS (Continued)
thyl]-3-(2-propenyloxy)phenyl ester (9CI) (CA INDEX NAME)



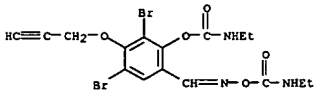
RN 75409-06-2 CAPLUS
CN Benzaldehyde,
3,5-dibromo-2-[[(phenylamino)carbonyl]oxy]-4-(2-propenyloxy)-
, 1-[O-[(phenylamino)carbonyl]oxime] (9CI) (CA INDEX NAME)



RN 75409-07-3 CAPLUS
CN Benzaldehyde,
3,5-dibromo-2-[[(methylamino)carbonyl]oxy]-4-(2-propynyloxy)-
, 1-[O-[(methylamino)carbonyl]oxime] (9CI) (CA INDEX NAME)

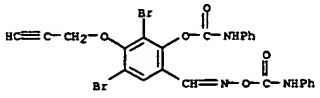


RN 75409-08-4 CAPLUS
CN Carbamic acid, ethyl-,
2,4-dibromo-6-[[[[(ethylamino)carbonyl]oxy]imino]me
thyl]-3-(2-propynyloxy)phenyl ester (9CI) (CA INDEX NAME)

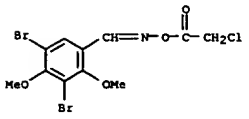


RN 75409-09-5 CAPLUS
CN Benzaldehyde,
3,5-dibromo-2-[[(phenylamino)carbonyl]oxy]-4-(2-propynyloxy)-

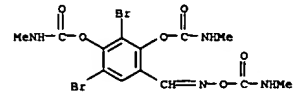
L15 ANSWER 24 OF 28 CAPLUS COPYRIGHT 2002 ACS (Continued)
, 1-[O-[(phenylamino)carbonyl]oxime] (9CI) (CA INDEX NAME)



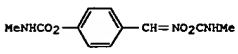
RN 75409-10-8 CAPLUS
CN Benzaldehyde, 3,5-dibromo-2,4-dimethoxy-, O-(chloroacetyl)oxime (9CI)
(CA
INDEX NAME)



RN 75409-11-9 CAPLUS
CN Benzaldehyde, 3,5-dibromo-2,4-bis[[(methylamino)carbonyl]oxy]-,
1-[O-[(methylamino)carbonyl]oxime] (9CI) (CA INDEX NAME)



L15 ANSWER 25 OF 28 CAPLUS COPYRIGHT 2002 ACS
GI



I

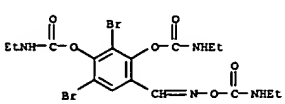
AB The oximes ArCX:NOQ (Ar = substituted Ph or heterocyclic radical; X = H, CH, halo, alkyl, etc.; Q = H, alkyl, haloalkyl, alkenyl, alkylsulfonyl, etc.) are herbicidal antidotes. Thus, seed treatment with 10 ppm I [34646-95-2] protected rice against the phytotoxic effect of Metolachlor [51218-45-2], in pot expts. The synthesis of the compds. is given.

ACCESSION NUMBER: 1981:78439 CAPLUS
DOCUMENT NUMBER: 94:78439
TITLE: Oxime derivatives and their use in the protection of cultivated plants
INVENTOR(S): Lukaszczyk, Alfons; Martin, Henry; Diel, Peter J.; Fory, Werner; Gatzi, Karl; Kristinsson, Haukur; Muller, Beat; Muntwyler, Rene; Pachlatko, Johannes Paul; et al.
PATENT ASSIGNEE(S): Ciba-Geigy A.-G., Switz.
SOURCE: Eur. Pat. Appl., 72 pp.
CODEN: EPXXDW
DOCUMENT TYPE: Patent
LANGUAGE: German
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

| PATENT NO. | KIND | DATE | APPLICATION NO. | DATE |
|---|---|---|---|---|
| EP 12158 | | 19800625 | | |
| PRIORITY APPLN. INFO.: | | | CH 1978-9255 | 19780901 |

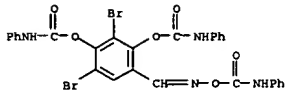
IT **75409-00-6P 75409-01-7P 75409-02-8P**
**75409-03-9P 75409-04-0P 75409-05-1P**
**75409-06-2P 75409-07-3P 75409-08-4P**
**75409-09-5P 75409-10-8P 75409-11-9P**
RL: AGR (Agricultural use); BAC (Biological activity or effector, except adverse); SPN (Synthetic preparation); BIOL (Biological study); PREP (Preparation); USES (Uses)
(prepn. and herbicide-antidote activity of)

RN 75409-00-6 CAPLUS
CN Carbamic acid, ethyl-,
2,4-dibromo-6-[[[[(ethylamino)carbonyl]oxy]imino]me
thyl]-1,3-phenylene ester (9CI) (CA INDEX NAME)

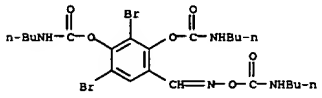


RN 75409-01-7 CAPLUS
CN Benzaldehyde, 3,5-dibromo-2,4-bis[[(phenylamino)carbonyl]oxy]-,
1-[O-[(phenylamino)carbonyl]oxime] (9CI) (CA INDEX NAME)

L15 ANSWER 25 OF 28 CAPLUS COPYRIGHT 2002 ACS (Continued)

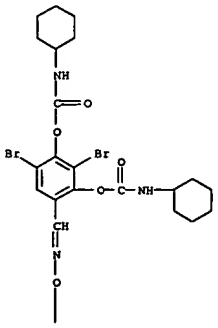


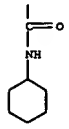
RN 75409-02-8 CAPLUS
CN Carbamic acid, butyl-,
2,4-dibromo-6-[[[[(butylamino)carbonyl]oxy]imino]me
thyl]-1,3-phenylene ester (9CI) (CA INDEX NAME)



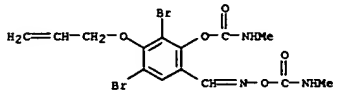
RN 75409-03-9 CAPLUS
CN Carbamic acid, cyclohexyl-,
2,4-dibromo-6-[[[[(cyclohexylamino)carbonyl]ox
y]imino]methyl]-1,3-phenylene ester (9CI) (CA INDEX NAME)

PAGE 1-A

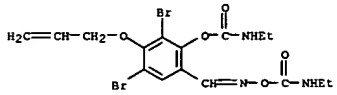




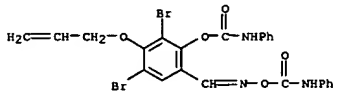
RN 75409-04-0 CAPLUS
CN Benzaldehyde,
3,5-dibromo-2-[[(methylamino)carbonyl]oxy]-4-(2-propenyloxy)-
, 1-[O-[(methylamino)carbonyl]oxime] (9CI) (CA INDEX NAME)



RN 75409-05-1 CAPLUS
CN Carbamic acid, ethyl-,
2,4-dibromo-6-[[[[(ethylamino)carbonyl]oxy]imino]me
thyl]-3-(2-propenyloxy)phenyl ester (9CI) (CA INDEX NAME)

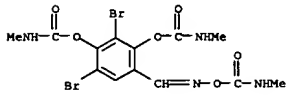


RN 75409-06-2 CAPLUS
CN Benzaldehyde,
3,5-dibromo-2-[[(phenylamino)carbonyl]oxy]-4-(2-propenyloxy)-
, 1-[O-[(phenylamino)carbonyl]oxime] (9CI) (CA INDEX NAME)

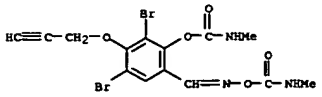


RN 75409-07-3 CAPLUS

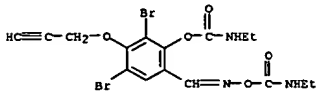

RN 75409-11-9 CAPLUS
CN Benzaldehyde, 3,5-dibromo-2,4-bis[[(methylamino)carbonyl]oxy]-,
1-[O-[(methylamino)carbonyl]oxime] (9CI) (CA INDEX NAME)



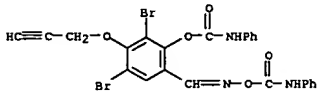

CN Benzaldehyde,
3,5-dibromo-2-[[(methylamino)carbonyl]oxy]-4-(2-propynyloxy)-
, 1-[O-[(methylamino)carbonyl]oxime] (9CI) (CA INDEX NAME)



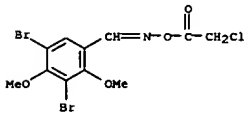
RN 75409-08-4 CAPLUS
CN Carbamic acid, ethyl-,
2,4-dibromo-6-[[[[(ethylamino)carbonyl]oxy]imino]me
thyl]-3-(2-propynyloxy)phenyl ester (9CI) (CA INDEX NAME)



RN 75409-09-5 CAPLUS
CN Benzaldehyde,
3,5-dibromo-2-[[(phenylamino)carbonyl]oxy]-4-(2-propynyloxy)-
, 1-[O-[(phenylamino)carbonyl]oxime] (9CI) (CA INDEX NAME)



RN 75409-10-8 CAPLUS
CN Benzaldehyde, 3,5-dibromo-2,4-dimethoxy-, O-(chloroacetyl)oxime (9CI)
(CA
INDEX NAME)

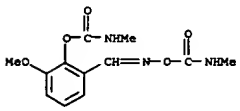



GI For diagram(s), see printed CA Issue.
AB Title compds. (I), used esp. against Rhopalosiphum padi, Phaedon cochleariae, and Euscelis bilobatus, were prepd. in 53.2-93.3% yield by reaction of MeNCO with the corresponding hydroxy-benzaldoximes. Thus, 2-hydroxybenzaldoxime in Et2O and MeNCO reacted 30 min at 10.degree. in the presence of Et3N to give 67.8% I (R=H, O2CNHMe in position 2). Similarly prepd. were 6 other I (R and position of O2CNHMe given): 5-Cl, 2; 3,5-Cl2, 2; 3-OMe, 2; H, 3; H, 4; and OMe, 4.

ACCESSION NUMBER: 1972:33961 CAPLUS
DOCUMENT NUMBER: 76:33961
TITLE: Insecticidal and acaricidal hydroxybenzaldoxime bis(methylcarbamates)
INVENTOR(S): Lorenz, Walter; Hammann, Ingeborg
PATENT ASSIGNEE(S): Farbenfabriken Bayer A.-G.
SOURCE: Ger. Offen., 21 pp.
CODEN: GWXXBX
DOCUMENT TYPE: Patent
LANGUAGE: German
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

| PATENT NO. | KIND | DATE | APPLICATION NO. | DATE |
|---|---|---|---|---|
| DE 2011182 | A | 19710923 | DE 1970-2011182 | 19700310 |

IT **34646-93-0P**
RL: SPN (Synthetic preparation); PREP (Preparation)
(prepn. of)
RN 34646-93-0 CAPLUS
CN Benzaldehyde, 3-methoxy-2-[[(methylamino)carbonyl]oxy]-,
O-[(methylamino)carbonyl]oxime (9CI) (CA INDEX NAME)



L15 ANSWER 27 OF 28 CAPLUS COPYRIGHT 2002 ACS

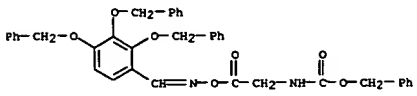
AB 2,3,4-(HO)3C6H2CH2NHO2CCH2NH2.2HBr (I) is prepd. from carbobenzoxyglycine and tritylhydroxylamine in 5 steps. In contrast to the corresponding isosteric 2,3,4-(HO)3C6H2CH2NHNHCOCH2NH2, I is not a decarboxylase inhibitor.

ACCESSION NUMBER: 1970:456389 CAPLUS
DOCUMENT NUMBER: 73:56389
TITLE: Synthesis of O-glycyl-N(2,3,4-trihydroxybenzyl)hydroxylamine dihydrobromide
AUTHOR(S): Hegedus, Balthasar; Krasso, A. F.
CORPORATE SOURCE: Chem. Forschungsabt., F. Hoffmann-La Roche und Co. A.-G., Basel, Switz.
SOURCE: Helv. Chim. Acta (1970), 53(5), 959-63
CODEN: HCACAV
DOCUMENT TYPE: Journal
LANGUAGE: German

IT **27916-68-3P**
RL: SPN (Synthetic preparation); PREP (Preparation)
(prepn. of)

RN 27916-68-3 CAPLUS

CN Benzaldehyde, 2,3,4-tris(benzyloxy)-, O-(N-carboxyglycyl)oxime benzyl ester (8CI) (CA INDEX NAME)



L15 ANSWER 28 OF 28 CAPLUS COPYRIGHT 2002 ACS

AB The title compds. useful as insecticides, animal systemic parasiticides, herbicides, and foliage fungicides have the formula I. The intermediate 3-(diethoxyphosphinothioyl) benzaldehyde (II), n30D 1.5239 was prepd. in 99.5% yield by refluxing 24.4 g. 3-hydroxybenzaldehyde, 37.8 g. O,O-diethylphos-phorochloridothioate, and 16.4 g. K2CO3 in 200 ml. Me Et ketone 4 hrs., the mixt. poured into 300 ml. H2O and twice extd. with CHCl3, 7.5 g. Na2CO3.H2O added to a mixt. of 27.4 g. II and 7.6 g. hydroxylamine hydrochloride in 300 ml. H2O at room temp. in 20 min., and the mixt. stirred one hr. and extd. with C6H6 to give 68.3% 3-(diethoxyphosphinothioyl)benzaldoxime (III), n30D 1.5460. III (10 g.) in 10 ml. acetone was treated with excess MeNCO and poured into 200 ml. C6H6 to give 93.3% 3-(dieth-oxyphosphinothioyl) benzaldoxime methylcarbamate, n30D 1.5394. Similarly prepd. in 96.9% yield was 4'-(diethoxyphospino-thioyl)acetophenone oxime methylcarbamate. A mixt. of 56.2 g. 4'-(diethoxyphosphinothioyl)acetophenone, 17.4 g. hydroxylamine hydrochloride, and 4 g. NaOH in 150 ml. 80% EtOH was refluxed 5 min., cooled, and acidified with concd. HCl to give 93.5% 4'-(diethoxyphosphinothioyl)acetophenone oxime (IV), n30D 1.5393. A mixt. of 10.0 g. IV, 3.2 g. AcCl, 4.1 g. Et3N, and 150 ml. C6H6 was refluxed one hr. to give 96.5% 4'-(diethoxy-phosphinothioyl)acetophenone oxime acetate, n30D 1.5279. A soln. of 14.5 g. 4-(diethoxyphosphinothioyl)benzaldoxime. (V) in 50 ml. Et2O was added in 30 min. at 10.degree. to 7 g. phosgene in 150 ml. Et2O, the mixt. stirred one hr. at 15.degree., a soln. of 17.4 g. morpholine in 10 ml. H2O added at <15.degree., and the mixt. stirred two hrs. at room temp. and worked up to give 89.8% 4-(diethoxy-phosphinothioyl)benzaldoxime 4-morpholinecarboxylate, n30D 1.5423. Similarly 14.5 g. V, 7 g. phosgene, and 8.6 g. N,N-dimethylaniline treated with 6.1 g. ethanolamine and 10 ml. H2O at <15.degree. gave 94.8% 4-(diethoxyphosphinothioyl)benzaldoxime (.beta.-hydroxyethyl)carbamate (VI), n30D 1.5423. A soln. of 11.6 g. N,N-diethylethylenediamine in 10 ml. H2O was added dropwise at <15.degree. to VI in Et2O soln. to give 51.8% 4-(diethoxyphos-phinothioyl)benzaldoxime 2-(diethylamino)ethyl carbamate, n30D 1.5310. These procedures were followed to obtain the tabulated I (X = S, p = position of phenyl substitution by R2C:NOR3 relative to P-contg. group). The following VII were likewise prepd. (R, R1, and n30D given): H, CONHMe, 1.5280; H, CONHBu, 1.5130; Me, CONHMe, 1.5243; Me, CONHPr-iso, 1.5109. The compds. prepd. were tested as pre- and postemergent herbicides, as foliage fungicides, as insecticides, and for internal animal systematic activity.

ACCESSION NUMBER: 1969:430236 CAPLUS
DOCUMENT NUMBER: 71:30236
TITLE: (O-Carbamoyl oxime), phosphate, phosphonate, and phosphinate compositions and their utility as herbicides and pesticides
INVENTOR(S): Gutman, Arnold D.
PATENT ASSIGNEE(S): Stauffer Chemical Co.
SOURCE: S. African, 80 pp.
CODEN: SFXXAB
DOCUMENT TYPE: Patent
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

| PATENT NO. | KIND | DATE | APPLICATION NO. | DATE |
|---|---|---|---|---|
| ZA 6803662 | | 19681108 | | |

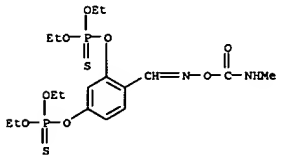
L15 ANSWER 28 OF 28 CAPLUS COPYRIGHT 2002 ACS (Continued)

PRIORITY APPLN. INFO.: US 19670616
US 19680520

IT **22942-28-5P 22942-30-9P 22942-31-0P**
RL: SPN (Synthetic preparation); PREP (Preparation)
(prepn. of)

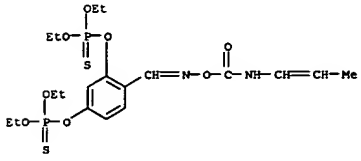
RN 22942-28-5 CAPLUS

CN Phosphorothioic acid, O,O-diethyl ester, O,O-diester with .beta.-resorcylaldehyde O-(methylcarbamoyl)oxime (8CI) (CA INDEX NAME)



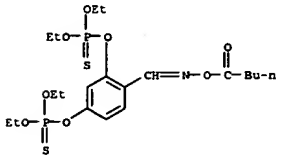
RN 22942-30-9 CAPLUS

CN Phosphorothioic acid, O,O-diethyl ester, O,O-diester with .beta.-resorcylaldehyde O-(propenylcarbamoyl)oxime (8CI) (CA INDEX NAME)



RN 22942-31-0 CAPLUS

CN Phosphorothioic acid, O,O-diethyl ester, O,O-diester with .beta.-resorcylaldehyde O-valeryloxime (8CI) (CA INDEX NAME)



L15 ANSWER 28 OF 28 CAPLUS COPYRIGHT 2002 ACS (Continued)

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=>
=>  fil regt
'REGT' IS NOT A VALID FILE NAME
SESSION CONTINUES IN FILE 'CAPLUS'
Enter "HELP FILE NAMES" at an arrow prompt (=>) for a list of files
that are available.  If you have requested multiple files, you can
specify a corrected file name or you can enter "IGNORE" to continue
accessing the remaining file names entered.

=> fil reg
COST IN U.S. DOLLARS                                SINCE FILE      TOTAL
                                                         ENTRY    SESSION
FULL ESTIMATED COST                                     135.56    1034.64

DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS)          SINCE FILE      TOTAL
                                                         ENTRY    SESSION
CA SUBSCRIBER PRICE                                     -17.35     -62.58

FILE 'REGISTRY' ENTERED AT 13:13:00 ON 30 MAY 2002
USE IS SUBJECT TO THE TERMS OF YOUR STN CUSTOMER AGREEMENT.
PLEASE SEE "HELP USAGETERMS" FOR DETAILS.
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STRUCTURE FILE UPDATES:   28 MAY 2002  HIGHEST RN 422506-41-0
DICTIONARY FILE UPDATES:  28 MAY 2002  HIGHEST RN 422506-41-0

TSCA INFORMATION NOW CURRENT THROUGH July 7, 2001

  Please note that search-term pricing does apply when
  conducting SmartSELECT searches.
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SAMPLE SCREEN SEARCH COMPLETED -     32 TO ITERATE

100.0% PROCESSED      32 ITERATIONS                                1 ANSWERS
SEARCH TIME: 00.00.01

FULL FILE PROJECTIONS:  ONLINE  **COMPLETE**
                        BATCH   **COMPLETE**
PROJECTED ITERATIONS:          301 TO      979
PROJECTED ANSWERS:               1 TO       80

L17           1 SEA SSS SAM L16

=> s l16 full
FULL SEARCH INITIATED 13:16:42 FILE 'REGISTRY'
FULL SCREEN SEARCH COMPLETED -    613 TO ITERATE

100.0% PROCESSED     613 ITERATIONS                              12 ANSWERS
SEARCH TIME: 00.00.01

L18          12 SEA SSS FUL L16

=> fil caplus
COST IN U.S. DOLLARS                          SINCE FILE      TOTAL
                                                 ENTRY    SESSION
FULL ESTIMATED COST                             142.18    1176.82
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=> s l18
L19             7 L18

=> d l19 1-7 abs ibib hitstr
```

L19 ANSWER 1 OF 7 CAPLUS COPYRIGHT 2002 ACS

AB Ketoxime-esters which generate radicals upon UV and/or visible radiation can be used in specific imaging applications and in electronics. The photogenerated radicals initiate radical polymn. of the photoimaging compns. The ketoxime-esters initiators can be used alone or in combination with sensitizers. The photosensitive compns. contg. these initiators can be used for (1) manuf. of spacers for liq. crystal displays; (2) producing lens arrays (microlens arrays) and prism sheets for solid-state image sensors; (3) producing dielec. insulating layers in liq. crystal displays.

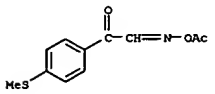
ACCESSION NUMBER: 2000:713730 CAPLUS
DOCUMENT NUMBER: 134:78558
TITLE: Use of ketoxime-esters
AUTHOR(S): Anon.
CORPORATE SOURCE: UK
SOURCE: Research Disclosure (2000), 437(Sept.), P1572-P1573 (No. 437035)
CODEN: RSDSBB; ISSN: 0374-4353
PUBLISHER: Kenneth Mason Publications Ltd.
DOCUMENT TYPE: Journal; Patent
LANGUAGE: English
PATENT INFORMATION:

| PATENT NO. | KIND | DATE | APPLICATION NO. | DATE |
|---|---|---|---|---|
| RD 437035 | | 20000910 | | |
| PRIORITY APPLN. INFO.: | | | RD 2000-437035 | 20000910 |

OTHER SOURCE(S): MARPAT 134:78558

IT 314745-04-5
RL: CAT (Catalyst use); TEM (Technical or engineered material use); USES (Uses)
(ketoxime-esters photogenerating radicals upon UV and/or visible radiation for use in photopolymg. compns. for imaging applications and in electronics)

RN 314745-04-5 CAPLUS
CN Benzeneacetaldehyde, 4-(methylthio)-.alpha.-oxo-, aldehydo-(O-acetyloxime) (9CI) (CA INDEX NAME)



L19 ANSWER 2 OF 7 CAPLUS COPYRIGHT 2002 ACS

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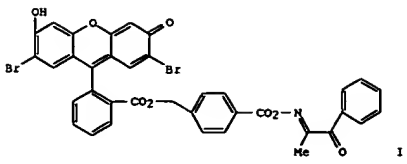


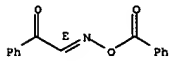
AB A new dye I which incorporated both the eosin and the O-benzoyl-.alpha.-oxooxime chromophores was synthesized and its behavior for the polymn. of 2-hydroxytethyl methacrylate (II) in the presence of a molar excess of N-methyldiethanolamine (III) was studied by differential scanning photocalorimetry. Under visible light (525 nm), I gives a greater polymn. rate than Eosin (IV) alone or a 1:1 M mixt. of IV and 1-phenyl-2-(O-benzoyloxoimino)-1-propanone. A photopolymerizable mixt. of I, II, III, and ethylene glycol dimethacrylate as the crosslinking monomer was evaluated as a photosensitive recording material for holog.

ACCESSION NUMBER: 1994:606082 CAPLUS
DOCUMENT NUMBER: 121:206082
TITLE: Synthesis and Evaluation as a Visible-Light Polymerization Photoinitiator of a New Eosin Ester with an O-Benzoyl-.alpha.-oxooxime Group
AUTHOR(S): Mallavia, R.; Amat-Guerri, F.; Fimia, A.; Sastre, R.
CORPORATE SOURCE: Instituto de Quimica Organica, CSIC, Madrid, 28006, Spain
SOURCE: Macromolecules (1994), 27(9), 2643-6
CODEN: MAMOBX; ISSN: 0024-9297
DOCUMENT TYPE: Journal
LANGUAGE: English

IT 154584-15-3P 154584-16-4P
RL: SPN (Synthetic preparation); PREP (Preparation)
(prepn. and condensation with eosin)

RN 154584-15-3 CAPLUS
CN Benzeneacetaldehyde, .alpha.-oxo-, aldehydo-(O-benzoyloxime), (E)- (9CI) (CA INDEX NAME)

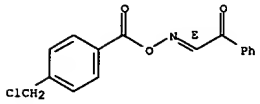
Double bond geometry as shown.



RN 154584-16-4 CAPLUS
CN Benzeneacetaldehyde, .alpha.-oxo-, aldehydo-[O-[4-(chloromethyl)benzoyl]oxime], (E)- (9CI) (CA INDEX NAME)

Double bond geometry as shown.

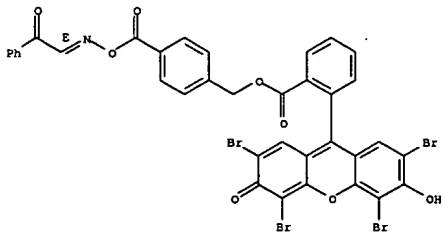
L19 ANSWER 2 OF 7 CAPLUS COPYRIGHT 2002 ACS (Continued)



IT 154584-14-2P
RL: SPN (Synthetic preparation); PREP (Preparation)
(prepn. of, as photoinitiators for methacrylates)

RN 154584-14-2 CAPLUS
CN Benzoic acid, 2-(2,4,5,7-tetrabromo-6-hydroxy-3-oxo-3H-xanthen-9-yl)-, [4-[[[(2-oxo-2-phenylethylidene)amino]oxy]carbonyl]phenyl]methyl ester, (E)- (9CI) (CA INDEX NAME)

Double bond geometry as shown.



L19 ANSWER 3 OF 7 CAPLUS COPYRIGHT 2002 ACS

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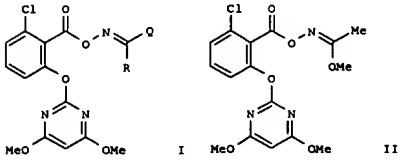


AB New 6-chloro-2-[(4,6-dimethoxy-2-pyrimidinyl)oxy]benzoates [[2-[[(alkyeneamino)oxy]carbonyl]-1-chloro-3-phenoxy]pyrimidines] I (R = H, halo, cyano, etc.; Q = alkyl, alkenyl, cycloalkyl, etc.) were disclosed. I were claimed as herbicides. An example compd. 2-[1-chloro-[[[(1-methoxyethylidene)amino]oxy]carbonyl]phenoxy]-4,6-dimethoxypyrimidine (II) was prepd.

ACCESSION NUMBER: 1994:605344 CAPLUS
DOCUMENT NUMBER: 121:205344
TITLE: Novel 6-chloro-2-(4,6-dimethoxypyrimidin-2-yl) oxybenzoic acid ester derivatives, processes for their production and their application as herbicides.
INVENTOR(S): Hur, Chang Uk; Cho, Jin Ho; Lee, Ho Seong; Yoo, Sang Ku; Hong, Su Myeong; Kim, Hong Woo; Rim, Jae Suk; Bae, Yeong Tae; Chae, Sand Heon; et al.
PATENT ASSIGNEE(S): Lucky Ltd., S. Korea
SOURCE: Eur. Pat. Appl., 82 pp.
CODEN: EPXXDW
DOCUMENT TYPE: Patent
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

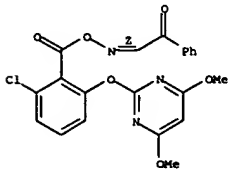
| PATENT NO. | KIND | DATE | APPLICATION NO. | DATE |
|---|---|---|---|---|
| EP 608862 | A1 | 19940803 | EP 1994-101132 | 19940126 |
| R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IE, IT, LI, LU, MC, NL, PT, SE | | | | |
| KR 9603323 | B1 | 19960308 | KR 1993-1017 | 19930127 |
| KR 9612180 | B1 | 19960916 | KR 1993-10097 | 19930604 |
| KR 9612179 | B1 | 19960916 | KR 1993-10098 | 19930604 |
| KR 9612181 | B1 | 19960916 | KR 1993-10099 | 19930604 |
| KR 9612194 | B1 | 19960916 | KR 1993-10100 | 19930604 |
| KR 9612195 | B1 | 19960916 | KR 1993-10101 | 19930604 |
| CN 1101345 | A | 19950412 | CN 1994-102665 | 19940126 |
| US 5494888 | A | 19960227 | US 1994-186589 | 19940126 |
| BR 9400365 | A | 19940816 | BR 1994-365 | 19940127 |
| JP 07149735 | A2 | 19950613 | JP 1994-7824 | 19940127 |
| JP 2543665 | B2 | 19961016 | | |
| PRIORITY APPLN. INFO.: | | | KR 1993-1017 A | 19930127 |

L19 ANSWER 3 OF 7 CAPLUS COPYRIGHT 2002 ACS (Continued)

| | | | |
|---|---|---|---|
| KR 1993-10097 | A | 19930604 |
| KR 1993-10098 | A | 19930604 |
| KR 1993-10099 | A | 19930604 |
| KR 1993-10100 | A | 19930604 |
| KR 1993-10101 | A | 19930604 |

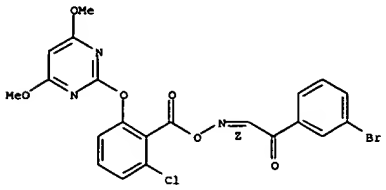
OTHER SOURCE(S): MARPAT 121:205344
IT 157991-16-7P 157991-21-4P
RL: AGR (Agricultural use); BAC (Biological activity or effector, except adverse); SPN (Synthetic preparation); BIOL (Biological study); PREP (Preparation); USES (Uses)
(prepn. of, as herbicide)
RN 157991-16-7 CAPLUS
CN Benzeneacetaldehyde, .alpha.-oxo-, aldehydo-[O-[2-chloro-6-[(4,6-dimethoxy-2-pyrimidinyl)oxy]benzoyl]oxime], (Z)- (9CI) (CA INDEX NAME)

Double bond geometry as shown.



RN 157991-21-4 CAPLUS
CN Benzeneacetaldehyde, 3-bromo-.alpha.-oxo-, aldehydo-[O-[2-chloro-6-[(4,6-dimethoxy-2-pyrimidinyl)oxy]benzoyl]oxime], (Z)- (9CI) (CA INDEX NAME)

Double bond geometry as shown.



L19 ANSWER 4 OF 7 CAPLUS COPYRIGHT 2002 ACS
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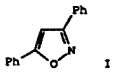
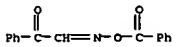


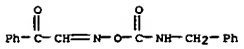
I

AB The ozonolysis of substituted isoxazoles, e.g. I, was investigated. The ozonolysis rates and the products were dependent on the site of the substituent group on isoxazole ring. The reaction mechanism of the ozonolysis of isoxazoles was also proposed.
ACCESSION NUMBER: 1994:507759 CAPLUS
DOCUMENT NUMBER: 121:107759
TITLE: Ozonolysis of substituted isoxazoles
AUTHOR(S): Kashima, Choji; Takahashi, Katsumi; Hosomi, Akira
CORPORATE SOURCE: Dep. Chem., Univ. Tsukuba, Tsukuba, 305, Japan
SOURCE: Heterocycles (1994), 37(2), 1075-82
CODEN: HTCYAM; ISSN: 0385-5414
DOCUMENT TYPE: Journal
LANGUAGE: English
IT 24561-42-0P
RL: SPN (Synthetic preparation); PREP (Preparation)
(prepn. of)
RN 24561-42-0 CAPLUS
CN Benzeneacetaldehyde, .alpha.-oxo-, aldehydo-(O-benzoyloxime) (9CI) (CA INDEX NAME)



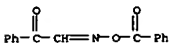
L19 ANSWER 5 OF 7 CAPLUS COPYRIGHT 2002 ACS
AB Among 14 potential substrates, neuropathy target esterase (NTE) hydrolyzed
Ph phenoxyacetate and Ph thiophenoxyacetate faster (1.5-1.7.times.) than Ph valerate, but selectivity of these substrates for NTE among the paraoxon-resistant esterases was only 35-62%. Seventy-seven other potential inhibitors (organophosphates, phosphonates, phosphoramidates, phosphinates, and carbamates) were examd. to det. I50NTE and effects on both NTE and non-NTE at 3-4 .times. I50NTE (I85-95) and, where possible, at 6-20 .times. I50NTE. Hydrophobic inhibitors with small/flexible leaving groups were generally very inhibitory: several 2,2-dichlorovinyl phosphates and fluorides were active at low nanomolar concns. In the dichlorovinyl phosphate series, increasing dialkyl chain length beyond n-pentyl decreased inhibitory power, presumably due to steric hindrance since the methyl/n-decyl ester was 15-fold more active than di-n-decyl. Chloro-substitution of both ortho-positions of a Ph leaving group for benzylcarbamates reduced inhibitory power more than 20-fold but had little
effect in a Ph leaving group of Me phenylphosphonates where the acyl-leaving group bond is longer and less subject to steric hindrance. N-Phenylbenzohydroxamyl benzylcarbamate is 10-fold more potent than any previously described carbamate against NTE. Among stereo-isomers, differences of activity ranged from <2 to 15-fold. Only diphenylphosphinyl fluoride appeared to be virtually specific for NTE: at 0.5-1 .mu.M, it inhibited .apprx.92% of NTE and 10-13% of non-NTE which is
similar to the specificity found for 2,6-dichlorophenyl Me phenylphosphonate which has been claimed to be specific. Diphenylphosphinyl fluoride has an advantage in that it is easily synthesized and should be protective rather than neuropathic, but it is not stable in store. According to first-order kinetics, concns. of inhibitor >6 .times. I50 should inhibit NTE >98% and for 19 out of 26 compds. a residue (2nd isoenzyme) >3% (limit of precision) was found under
these conditions: in nearly every case, the quantity was 3-5%. This quantity may not be true NTE but it cannot be the target for organophosphate-induced delayed neuropathy since it is resistant to various neuropathic and protective compds. The error of including this non-NTE in assays using the std. protocol is negligible.
ACCESSION NUMBER: 1989:130136 CAPLUS
DOCUMENT NUMBER: 110:130136
TITLE: Sensitivity and selectivity of compounds interacting with neuropathy target esterase. Further structure-activity studies
AUTHOR(S): Johnson, Martin K.
CORPORATE SOURCE: Toxicol. Unit, Med. Res. Counc. Lab., Carshalton/Surrey, SM5 4EF, UK
SOURCE: Biochem. Pharmacol. (1988), 37(21), 4095-104
CODEN: BCPCA6; ISSN: 0006-2952
DOCUMENT TYPE: Journal
LANGUAGE: English
IT 118855-72-4
RL: BIOL (Biological study)
(neuropathy target esterase inhibition by, structure in relation to)
RN 118855-72-4 CAPLUS
CN Benzeneacetaldehyde, .alpha.-oxo-, aldehydo-[O-[[(phenylmethyl)amino]carbonyl]oxime] (9CI) (CA INDEX NAME)

L19 ANSWER 5 OF 7 CAPLUS COPYRIGHT 2002 ACS (Continued)

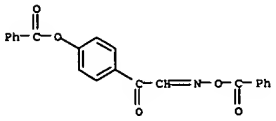


L19 ANSWER 6 OF 7 CAPLUS COPYRIGHT 2002 ACS
AB O-Acylated oximinoketones RCOCR':NO2CR'' (I) were synthesized from the corresponding .alpha.,.beta.-diketones and their structures ascertained by microanal. and NMR spectroscopy. The free radicals produced during the photolysis of I initiate the polymn. of acryl derivs. The kinetics of the photopolymns. of acrylamide and Me methacrylate were studied by gravimetric, thermometric, and dilatometric methods. The photopolymn. rate is proportional to the 1.5 power of the monomer concn. A square root dependence of the rate of photopolymn. was observed with respect to the light intensity for acrylamide, and with respect to the initiator concn. for Me methacrylate. Copolymn. of 1-phenyl-1,2-propanedione 2-O-methacryloyl oxime with Me methacrylate and polycondensation of 1-(4-hydroxyphenyl)-1,2-propanedione 2-oxime or p-hydroxyphenylglyoxal aldoxime and 2,2-bis-(4-hydroxylphenyl)propane with isophthaloyl, terephthaloyl, and sebacoyl chlorides were successful. Irradn. of these polymers produces intensive photodegradation; in the presence of monomers such as acrylamide, styrene or acrylonitrile, graft and block polymers are obtained.

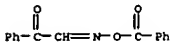
ACCESSION NUMBER: 1970:477691 CAPLUS
DOCUMENT NUMBER: 73:77691
TITLE: Photopolymerization initiated by O-acyloximes
AUTHOR(S): Delzenne, Gerard A.; Laridon, Urbain L.; Peeters, H.
CORPORATE SOURCE: Photochem. Res. Lab., Gevaert-Agfa N. V., Mortsel-Antwerp, Belg.
SOURCE: Eur. Polym. J. (1970), 6(7), 933-43
CODEN: EUPJAG
DOCUMENT TYPE: Journal
LANGUAGE: English
IT 24561-42-0
RL: CAT (Catalyst use); USES (Uses)
(catalysts, for polymn. of vinyl compds.)
RN 24561-42-0 CAPLUS
CN Benzeneacetaldehyde, .alpha.-oxo-, aldehydo-(O-benzoyloxime) (9CI) (CA INDEX NAME)



L19 ANSWER 7 OF 7 CAPLUS COPYRIGHT 2002 ACS (Continued)
RN 22603-43-6 CAPLUS
CN Glyoxal, (p-hydroxyphenyl)-, 2-(O-benzoyloxime), benzoate (ester) (8CI) (CA INDEX NAME)



RN 24561-42-0 CAPLUS
CN Benzeneacetaldehyde, .alpha.-oxo-, aldehydo-(O-benzoyloxime) (9CI) (CA INDEX NAME)



L19 ANSWER 7 OF 7 CAPLUS COPYRIGHT 2002 ACS
AB Photopolymerizable, ethylenically unsatd. monomers are polymd. by irradiating a mixt. of the desired monomer and an O-acyl oxime initiator. Thus, various amts. of Me methacrylate (I) were dissolved in 10-3M PhCOCMe:NOBz in benzene. The solns. were sealed in tubes under N and irradiated for 120 min. with a Hg vapor lamp. The polymer was then pptd. by pouring the soln. into an excess of MeOH, sepd. and dried (I concn. in moles/l. and mg. polymer yield given): 2.34, 300; 3.74, 762; 4.68, 1101; 5.62, 1424; 7.02, 1908; 8.42, 2238. Styrene, acrylonitrile, and acrylamide were also polymd. by this method, using as initiators MeCOCH:NOBz, MeCOCOCMe:NO2CCMe:CH2 (II), MeCOCMe:NO2CCH:CHPh, biacetyl O-(1-naphthoyl)monooxime, MeCOCMe:NOBz, biacetyl O-(o-chlorobenzoyl)monooxime, biacetyl O-(m-nitrobenzoyl)monooxime, biacetyl O-(m-methoxybenzoyl)monooxime, MeCOCPh:NOBz, PhCH:NOBz, 1-phenyl-1,2-propanedione 2-[O-(m-chlorobenzoyl)oxime], 1-phenyl-1,2-propanedione 2-[O-(p-azidobenzoyl)oxime], 1-phenyl-1,2-propanedione 2-[O-(1-anthraquinonylcarbonyl)oxime], PhCOCPh:NOBz, benzil O-(o-chlorobenzoyl)monooxime, PhCOCMe:NO2CCH2Ph, PhCOCMe:-NO2CCH:CHPh, 1-[p-(benzoyloxy)phenyl]glyoxal 2-(O-benzoyl)-oxime, 1-[p-(methacryloyloxy)phenyl]1,2-propanedione 2-(O-methacryloyl)oxime, PhCH:CHCOCH:NOBz, phenanthrenequinone (O-benzoyl)monooxime, 2,3-dihydroindene-1,2-dione 2-(O-benzoyl)oxime, O,O'-isophthaloylbis(biacetyl monooxime), and Ph-COC(SO2Ph):NOBz. I and II were copolymd., and a 1-g. portion of this copolymer and 5 ml. styrene were dild. to 20 ml. with benzene and irradiated under N giving a mixt. of polystyrene, 2 different graft copolymers, and the I-II copolymer. This copolymer was used as an initiator for a variety of monomers, including (diethylamino)ethyl methacrylate. In another type of example, 1-(p-hydroxyphenyl)-1,2-propanedione 2-oxime was polycondensed with isophthaloyl dichloride, terephthaloyl dichloride, and 2,2-bis(4-hydroxyphenyl)propane, giving a copolyester, which was used as a polymn. initiator for I, giving I homopolymer and a block copolymer. A similar condensate from 1-(p-hydroxyphenyl)glyoxal 2-oxime was also used as an initiator. A mixt. of 10 g. ethylene-maleic anhydride copolymer, 5 ml. triethylene glycol diacrylate, 25 mg. 2,6-di-tert-butyl-p-cresol, 50 ml. acetone, and 100 mg. PhCOCMe:NOBz was coated on a glass plate and dried to a 0.3-mm. layer. This layer was exposed 5 min. through a line neg. with a Hg lamp, and then washed with acetone, giving a very sharp relief image.

ACCESSION NUMBER: 1969:439636 CAPLUS
DOCUMENT NUMBER: 71:39636
TITLE: Unsaturated ethylenic compound photopolymers
INVENTOR(S): Laridon, Urbain L.; Delzenne, Gerard A.
PATENT ASSIGNEE(S): Gevaert-Agfa N. V.
SOURCE: Belg., 27 pp.
CODEN: BEXXAL
DOCUMENT TYPE: Patent
LANGUAGE: French
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

| PATENT NO. | KIND | DATE | APPLICATION NO. | DATE |
|---|---|---|---|---|
| BE 719039 | | 19690205 | | |
| PRIORITY APPLN. INFO.: | | | GB | 19670808 |

IT 22603-43-6 24561-42-0
RL: CAT (Catalyst use); USES (Uses)
(catalysts, for polymn. of vinyl compds. by light)

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DICTIONARY FILE UPDATES:  28 MAY 2002  HIGHEST RN 422506-41-0

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Registry File, for complete details:
http://www.cas.org/ONLINE/STN/STNOTES/stnotes27.pdf

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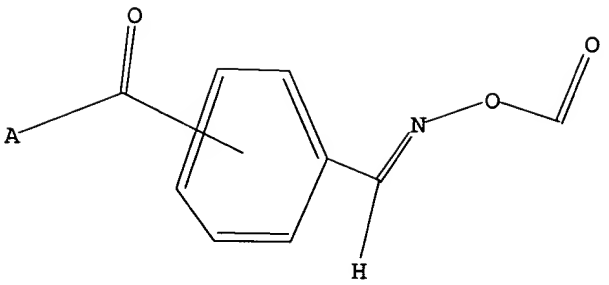


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FILE COVERS 1907 - 30 May 2002 VOL 136 ISS 22
FILE LAST UPDATED: 29 May 2002 (20020529/ED)

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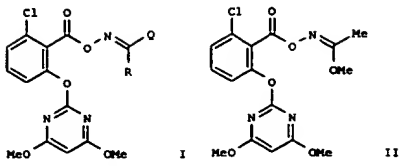
L24 ANSWER 1 OF 4 CAPLUS COPYRIGHT 2002 ACS
GI



AB New 6-chloro-2-[(4,6-dimethoxy-2-pyrimidinyl)oxy]benzoates [(2-[[(alkyeneamino)oxy]carbonyl]-1-chloro-3-phenoxy)pyrimidines] I (R = H, halo, cyano, etc.; Q = alkyl, alkenyl, cycloalkyl, etc.) were disclosed. I were claimed as herbicides. An example compd. 2-[1-chloro-[[[(1-methoxyethylidene)amino]oxy]carbonyl]phenoxy]-4,6-dimethoxypyrimidine (II) was prepd.

ACCESSION NUMBER: 1994:605344 CAPLUS
DOCUMENT NUMBER: 121:205344
TITLE: Novel 6-chloro-2-(4,6-dimethoxypyrimidin-2-yl) oxybenzoic acid ester derivatives, processes for their production and their application as herbicides.
INVENTOR(S): Hur, Chang Uk; Cho, Jin Ho; Lee, Ho Seong; Yoo, Sang Ku; Hong, Su Myeong; Kim, Hong Woo; Rim, Jae Suk; Bae, Yeong Tae; Chae, Sand Heon; et al.
PATENT ASSIGNEE(S): Lucky Ltd., S. Korea
SOURCE: Eur. Pat. Appl., 82 pp.
CODEN: EPXXDW
DOCUMENT TYPE: Patent
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

| PATENT NO. | KIND | DATE | APPLICATION NO. | DATE |
|---|---|---|---|---|
| EP 608862 | A1 | 19940803 | EP 1994-101132 | 19940126 |
| R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IE, IT, LI, LU, MC, NL, PT, SE | | | | |
| KR 9603323 | B1 | 19960308 | KR 1993-1017 | 19930127 |
| KR 9612180 | B1 | 19960916 | KR 1993-10097 | 19930604 |
| KR 9612179 | B1 | 19960916 | KR 1993-10098 | 19930604 |
| KR 9612181 | B1 | 19960916 | KR 1993-10099 | 19930604 |
| KR 9612194 | B1 | 19960916 | KR 1993-10100 | 19930604 |
| KR 9612195 | B1 | 19960916 | KR 1993-10101 | 19930604 |
| CN 1101345 | A | 19950412 | CN 1994-102665 | 19940126 |
| US 5494888 | A | 19960227 | US 1994-186589 | 19940126 |
| BR 9400365 | A | 19940816 | BR 1994-365 | 19940127 |
| JP 07149735 | A2 | 19950613 | JP 1994-7824 | 19940127 |
| JP 2543665 | B2 | 19961016 | | |

PRIORITY APPLN. INFO.:
KR 1993-1017 A 19930127
KR 1993-10097 A 19930604
KR 1993-10098 A 19930604

L24 ANSWER 1 OF 4 CAPLUS COPYRIGHT 2002 ACS (Continued)

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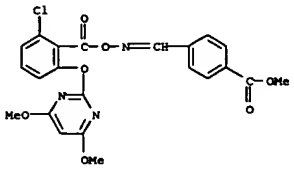
|---|---|---|
| KR 1993-10099 | A | 19930604 |
| KR 1993-10100 | A | 19930604 |
| KR 1993-10101 | A | 19930604 |

OTHER SOURCE(S): MARPAT 121:205344
IT 157990-22-2P
RL: AGR (Agricultural use); BAC (Biological activity or effector, except adverse); SPN (Synthetic preparation); BIOL (Biological study); PREP (Preparation); USES (Uses)
(prepn. of, as herbicide)
RN 157990-22-2 CAPLUS
CN Benzoic acid, 4-[[[[2-chloro-6-[(4,6-dimethoxy-2-pyrimidinyl)oxy]benzoyl]oxy]imino]methyl]-, methyl ester (9CI) (CA INDEX NAME)



L24 ANSWER 2 OF 4 CAPLUS COPYRIGHT 2002 ACS
GI For diagram(s), see printed CA Issue.
AB Approx. 300 oximes R1CR2:NOR3 (R1 = substituted Ph or heterocyclic radical; R2 = H, CH, halogen, alkyl, etc.; R3 = H, alkyl, haloalkyl, alkenyl, alkylsulfonyl, etc.) were prepd. and tested as herbicidal antidotes. Thus, seed treatment with 10 ppm (I) [34646-95-2] protected rice against the phytotoxic effect of Metolachlor [51218-45-2], in pot expts.

ACCESSION NUMBER: 1982:540287 CAPLUS
Correction of: 1981:78439
DOCUMENT NUMBER: 97:140287
Correction of: 94:78439
TITLE: Oxime derivatives and their use in the protection of cultivated plants
INVENTOR(S): Lukaszczyk, Alfons; Martin, Henry; Diel, Peter J.; Fory, Werner; Gatzi, Karl; Kristinsson, Haukur; Muller, Beat; Muntwyler, Rene; Pachlatko, Johannes Paul; et al.
PATENT ASSIGNEE(S): Ciba-Geigy A.-G., Switz.
SOURCE: Eur. Pat. Appl., 72 pp.
CODEN: EPXXDW
DOCUMENT TYPE: Patent
LANGUAGE: German
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

| PATENT NO. | KIND | DATE | APPLICATION NO. | DATE |
|---|---|---|---|---|
| EP 12158 | A2 | 19800625 | EP 1979-103212 | 19790830 |
| EP 12158 | A3 | 19800723 | | |
| EP 12158 | B1 | 19840815 | | |
| R: AT, BE, CH, DE, FR, GB, IT, NL | | | | |
| US 4347372 | A | 19820831 | US 1979-70288 | 19790828 |
| CS 210698 | P | 19820129 | CS 1979-5915 | 19790830 |
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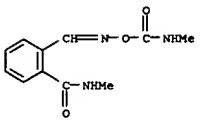
| ZA 7904650 | A | 19800924 | ZA 1979-4650 | 19790904 |
| US 4388464 | A | 19830614 | US 1981-232752 | 19810209 |
| US 4715883 | A | 19871229 | US 1982-423354 | 19820924 |

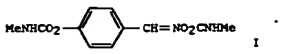
PRIORITY APPLN. INFO.:
CH 1978-9255 19780901
US 1979-70288 19790828
EP 1979-103212 19790830
US 1981-232752 19810209

IT 75407-55-5P
RL: AGR (Agricultural use); BAC (Biological activity or effector, except adverse); SPN (Synthetic preparation); BIOL (Biological study); PREP (Preparation); USES (Uses)
(prepn. and herbicide-antidote activity of)
RN 75407-55-5 CAPLUS
CN Benzamide, N-methyl-2-[[[[(methylamino)carbonyl]oxy]imino]methyl]- (9CI) (CA INDEX NAME)

L24 ANSWER 2 OF 4 CAPLUS COPYRIGHT 2002 ACS (Continued)



L24 ANSWER 3 OF 4 CAPLUS COPYRIGHT 2002 ACS
GI



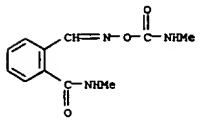
I

AB The oximes ArCX:NOQ (Ar = substituted Ph or heterocyclic radical; X = H, CH, halo, alkyl, etc.; Q = H, alkyl, haloalkyl, alkenyl, alkylsulfonyl, etc.) are herbicidal antidotes. Thus, seed treatment with 10 ppm I [34646-95-2] protected rice against the phytotoxic effect of Metolachlor [51218-45-2], in pot expts. The synthesis of the compds. is given.

ACCESSION NUMBER: 1981:78439 CAPLUS
DOCUMENT NUMBER: 94:78439
TITLE: Oxime derivatives and their use in the protection of cultivated plants
INVENTOR(S): Lukaszczyk, Alfons; Martin, Henry; Diel, Peter J.; Fory, Werner; Gatzi, Karl; Kristinsson, Haukur; Muller, Beat; Muntwyler, Rene; Pachlatko, Johannes Paul; et al.
PATENT ASSIGNEE(S): Ciba-Geigy A.-G., Switz.
SOURCE: Eur. Pat. Appl., 72 pp.
CODEN: EPXXDW
DOCUMENT TYPE: Patent
LANGUAGE: German
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

| PATENT NO. | KIND | DATE | APPLICATION NO. | DATE |
|---|---|---|---|---|
| EP 12158 | | 19800625 | | |
| PRIORITY APPLN. INFO.: | | | CH 1978-9255 | 19780901 |

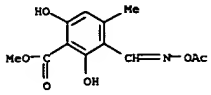
IT 75407-55-5P
RL: AGR (Agricultural use); BAC (Biological activity or effector, except adverse); SPN (Synthetic preparation); BIOL (Biological study); PREP (Preparation); USES (Uses)
(prepn. and herbicide-antidote activity of)
RN 75407-55-5 CAPLUS
CN Benzamide, N-methyl-2-[[[[(methylamino)carbonyl]oxy]imino]methyl]- (9CI) (CA INDEX NAME)



L24 ANSWER 4 OF 4 CAPLUS COPYRIGHT 2002 ACS
GI For diagram(s), see printed CA Issue.
AB 3,4-Dihydro-2-phenylnaphtho[1,8-bc]-furan-5-one (I) and Me 6-acetoxy-4-(diacetoxymethyl)-1,2-benzisoxazole-7-carboxylate (II) were prepd. as precursors of the CD ring system and ring A, resp., of tetracycline, ZnCl2-catalyzed condensation of 1,5-dihydroxynaphthalene with BzOH gave 38% 2-phenylnaphtho[1,8-bc]furan-5-one, which was hydrogenated (Raney Ni) to I. Gattermann reaction of Me 2,6-dihydroxy-p-toluate gave Me 3-formyl-2,6-dihydroxy-p-toluate, the oxime of which was pyrolyzed at 140-50.degree. to give Me 6-hydroxy-4-methylbenzisoxazole-7-carboxylate, the acetate of which was oxidized (CrO3-AcOH-Ac2O) to give 30% II. Acid-catalyzed condensation of I with II gave 50% 4-[(6-acetoxy-7-(methoxycarbonyl)-1,2-benzisoxazol-4-yl]methylene]-3,4-dihydro-2-phenylnaphtho[1,8-bc]furan-5-one (III), but attempts to transform this into 4-de(dimethylamino)-4a,12a-anhydrotetracycline failed.

ACCESSION NUMBER: 1971:448755 CAPLUS
DOCUMENT NUMBER: 75:48755
TITLE: Synthesis of tetracycline. II. Synthesis of potential ring A and ring C-ring D components
AUTHOR(S): Barton, D. H. R.; Halpern, B.; Porter, Q. N.; Collins.
D. J.
CORPORATE SOURCE: Dep. Chem., Imp. Coll. Sci. Technol., London, Engl.
SOURCE: J. Chem. Soc. C (1971), (12), 2166-74
CODEN: JSOOAX
DOCUMENT TYPE: Journal
LANGUAGE: English

IT 32848-32-1P
RL: SPN (Synthetic preparation); PREP (Preparation)
(prepn. of)
RN 32848-32-1 CAPLUS
CN Isophthalaldehydic acid, 2,6-dihydroxy-4-methyl-, methyl ester, 3-(O-acetyloxime) (8CI) (CA INDEX NAME)



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